

*California Department of Transportation  
Division of Maintenance*

***Structure Maintenance and Investigations***

---

**B**<sub>RIDGE</sub>

**I**<sub>NSPECTION</sub>

**R**<sub>ECORDS</sub>

**I**<sub>NFORMATION</sub>

**S**<sub>YSTEM</sub>

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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DATE APPROVED: October 5, 1964

APPROXIMATE QUANTITIES

	BRIDGE	WALL #1	WALL #2	WALL #3
*STRUCTURE EXCAVATION (BR)	900 CY	710 CY	420 CY	35 CY
*STRUCTURE BACKFILL (BR)	1,320 CY	1,560 CY	1,935 CY	210 CY
*PERVIOUS BACKFILL MATERIAL	200 CY	100 CY	150 CY	2 CY
16" ASBESTOS CEMENT SEWER PIPE	3,550 LF		4,170 LF	415 LF
5' CIP CONCRETE PILING	2,880 LF			
PRESTRESSING CIP CONCRETE	LUMP SUM			
*CLASS A CONCRETE (BR)	18,700 CY	565 CY	710 CY	75 CY
CLASS B CONCRETE	2 CY	18 CY		
CLOSURE WALLS	820 SF			
WATERSTOPS	1,010 LF	55 LF	88 LF	
JOINT SEALER	910 LF			
*BAR REINFORCING STEEL (BR)	5,800,000 LB	48,000 LB	105,000 LB	13,000 LB
*STRUCTURAL STEEL	1,130,000 LB			
BRIDGE DECK DRAINAGE SYSTEM	LUMP SUM			
MISC METAL (BR)	32,600 LB			
CLEAN & PAINT STRUCTURAL STEEL	LUMP SUM			
CONTRAST TREATMENT	7,450 SY			
BARRIER RAILING (TYPE 1)	8,470 LF		315 LF	46 LF
METAL SAFETY RAILING	38 LF			

\*FINAL QUANTITIES

- |  |   |                                      |
|--|---|--------------------------------------|
| 1. GENERAL PLAN                        | 31. GIRDER LAYOUT 1 (LT. BR.)           | 61. BOTTOM GIRDER REINF. 4 (RT. BR.) |
| 2. INDEX TO PLANS                      | 32. " " 2 " "                           | 62. " " " 5 " "                      |
| 3. STRUCTURE PLAN 1                    | 33. " " 3 " "                           | 63. " " " 6 " "                      |
| 4. " " 2                               | 34. " " 4 " "                           | 64. TOP GIRDER REINF. 1 (LT. BR.)    |
| 5. " " 3                               | 35. " " 5 " "                           | 65. " " " 2 " "                      |
| 6. FALSEWORK OPENING LAYOUT            | 36. " " 6 " "                           | 66. " " " 3 " "                      |
| 7. 10' GRID OF DECK ELEVATIONS 1       | 37. " " 1 (RT. BR.)                     | 67. " " " 4 " "                      |
| 8. " " " " " 2                         | 38. " " 2 " "                           | 68. " " " 5 " "                      |
| 9. " " " " " 3                         | 39. " " 3 " "                           | 69. " " " 6 " "                      |
| 10. " " " " " 4                        | 40. " " 4 " "                           | 70. " " " 1 (RT. BR.)                |
| 11. CAMBER DIAGRAM                     | 41. " " 5 " "                           | 71. " " " 2 " "                      |
| 12. FOUNDATION PLAN 1                  | 42. " " 6 " "                           | 72. " " " 3 " "                      |
| 13. " " 2                              | 43. " " 7 " "                           | 73. " " " 4 " "                      |
| 14. " " 3                              | 44. BOX GIRDER DETAILS NO. 1            | 74. " " " 5 " "                      |
| 15. ABUTMENT 1                         | 45. STANDARD DETAILS NO. 2 (BOX GIRDER) | 75. " " " 6 " "                      |
| 16. CLOSURE WALL DETAILS               | 46. HINGE DETAILS NO. 1                 | 76. TYPICAL SECTIONS - STEEL GIRDERS |
| 17. BENT 2                             | 47. " " " 2                             | 77. STEEL GIRDER LAYOUT              |
| 18. BENT COLUMNS 1                     | 48. TYPE D-2 DRAIN & DETAILS            | 78. STEEL GIRDER DETAILS 1           |
| 19. " " 2                              | 49. BENT CAP REINFORCEMENT (LT. BR.)    | 79. " " " 2                          |
| 20. ABUTMENT 19 DETAILS 1              | 50. BENT 17 (LT. BR.)                   | 80. " " " 3                          |
| 21. " " " 2                            | 51. BENT CAP REINFORCEMENT (RT. BR.)    | 81. STANDARD DETAILS (STEEL GIRDERS) |
| 22. RETAINING WALL 1                   | 52. BOTTOM GIRDER REINF. 1 (LT. BR.)    | 82. BARRIER RAILING SHEET 1          |
| 23. " " 2 (1 OF 3)                     | 53. " " " 2 " "                         | 83. " " " 2                          |
| 24. " " " 2 (2 OF 3)                   | 54. " " " 3 " "                         | 84. LOG OF TEST BORINGS 1            |
| 25. " " " 3 (3 OF 3)                   | 55. " " " 4 " "                         | 85. " " " 2                          |
| 26. " " 3                              | 56. " " " 5 " "                         | 86. " " " 3                          |
| 27. TYPE 1 RETAINING WALL (H=4'-30')   | 57. " " " 6 " "                         | 87. " " " 4                          |
| 28. RETAINING WALL DETAILS NO. 1       | 58. " " " 1 (RT. BR.)                   |                                      |
| 29. TYPICAL SECTION - CONCRETE GIRDERS | 59. " " " 2 " "                         |                                      |
| 30. GIRDER LAYOUT DETAILS              | 60. " " " 3 " "                         |                                      |

GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1961 with revisions and as supplemented by Bridge Planning and Design Manual.

LIVE LOADING: H 20-S16-44 and Alternative

REINFORCED CONCRETE:  $f'_s = 20,000$  p.s.i.,  $n = 10$   
 $f'_c = 1,200$  p.s.i.

STRUCTURAL STEEL:  $f_s = 20,000$  p.s.i.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER T. Neger.

REVISIONS CORRECTED BY R.E. BLAKE DATE 7-6-66

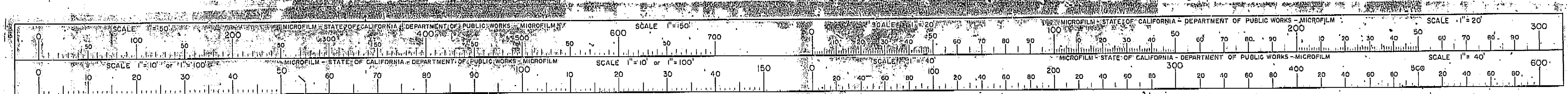
**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.E. Blake
DESIGN	By _____
DETAILS	By D.A. Blake
QUANTITIES	By _____

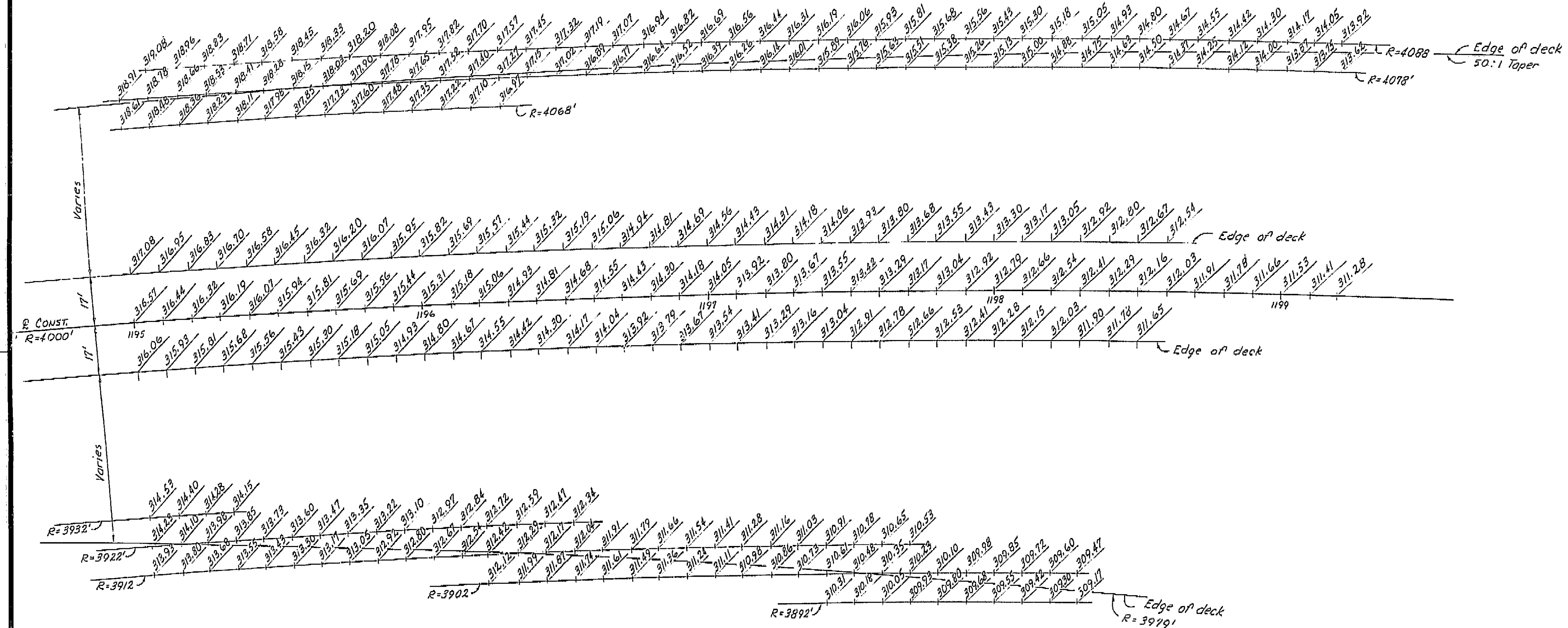
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
INDEX TO PLANS			
SCALE None	BRIDGE 42-226	FILE	DRAWING 42226-78
PRELIMINARY DRAWING NO.		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE \_\_\_\_\_ TITLE S.R. RMC







THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-64, AS SUBMITTED BY RESIDENT ENGINEER Nagel. TRACINGS CORRECTED BY AS DATE: 7/1/66

NOTE:  
Elevations are calculated radially from profile line at 10' stations along E. Const.  
These elevations do not include camber.

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed             
Document No. 60001071

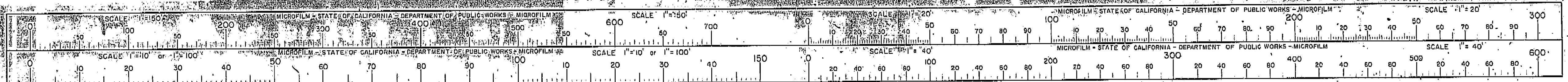
BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	<u>R. C. Blake</u>
DESIGN	By <u>Wm. D. Banks</u> 7-63 Checked <u>A. F. S. A. D.</u> 1-64
DETAILS	By <u>M. Z. U. T. A. N. I.</u> 8-63 Checked <u>G. H. H.</u> 1-64
QUANTITIES	By <u>          </u> Checked <u>          </u>

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
10' GRID OF DECK ELEVATIONS 4.	
SCALE 1"=20'	BRIDGE 42-228
FILE	DRAWING 42226-73

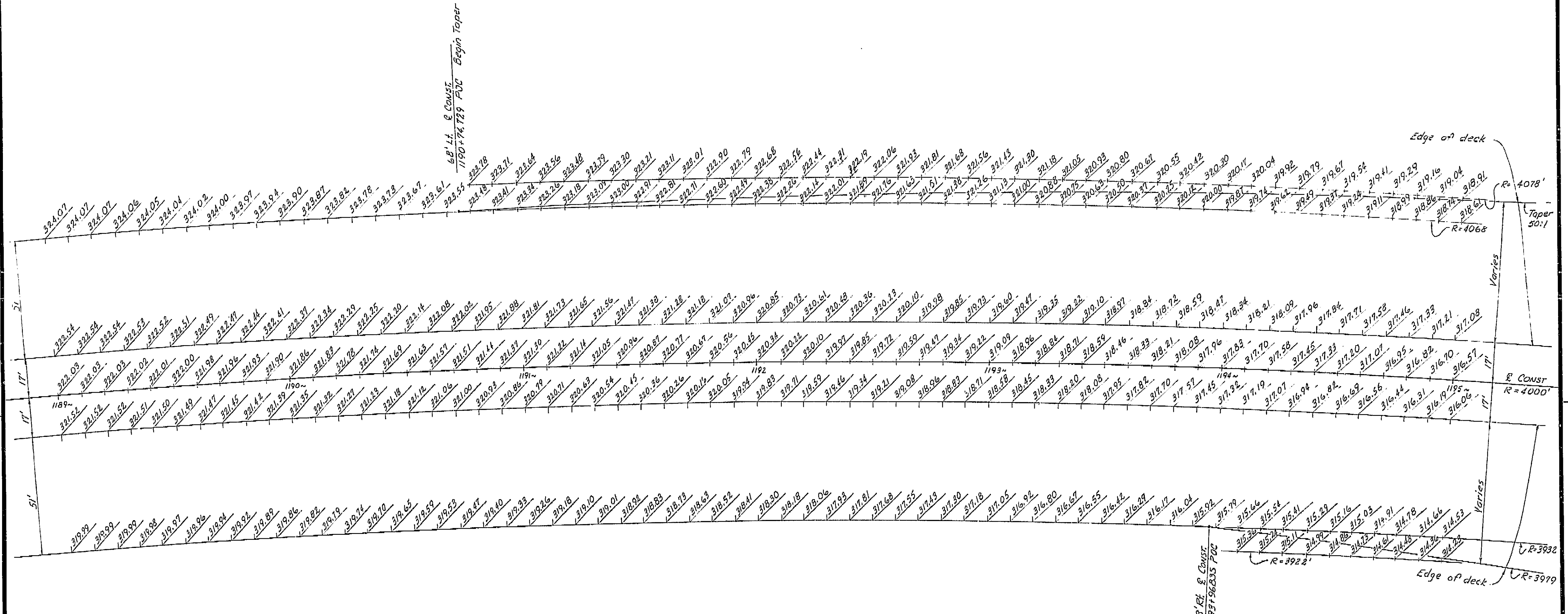
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING NO.	REVISION DATES
P-4	NA 11

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE L. M. C. Little SR RMC







THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS LATED 4-29-66 AS SUBMITTED BY RESIDENT ENGINEER J. Nagel. REVISIONS CORRECTED BY: R.S. DATE: 7/6/66

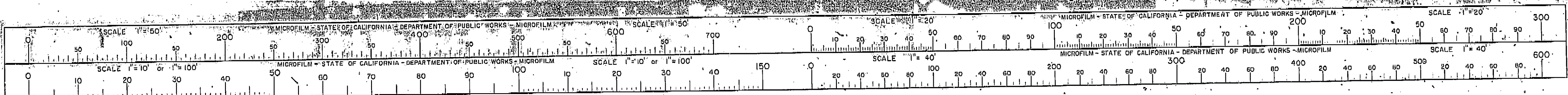
NOTE:  
Elevations are calculated radially from profile line at 10' stations along & Const.  
These elevations do not include camber.

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

BRIDGE DEPARTMENT		
DESIGN SECTION 15		
Section Supervisor	R.C. Blunk	
DESIGN	By Vernon A. Banks	7-63
	Checked H.A.F. T.A.D.	1-64
DETAILS	By M. J. J. J. J.	8-63
	Checked S.H.	1-64
QUANTITIES	By	
	Checked	

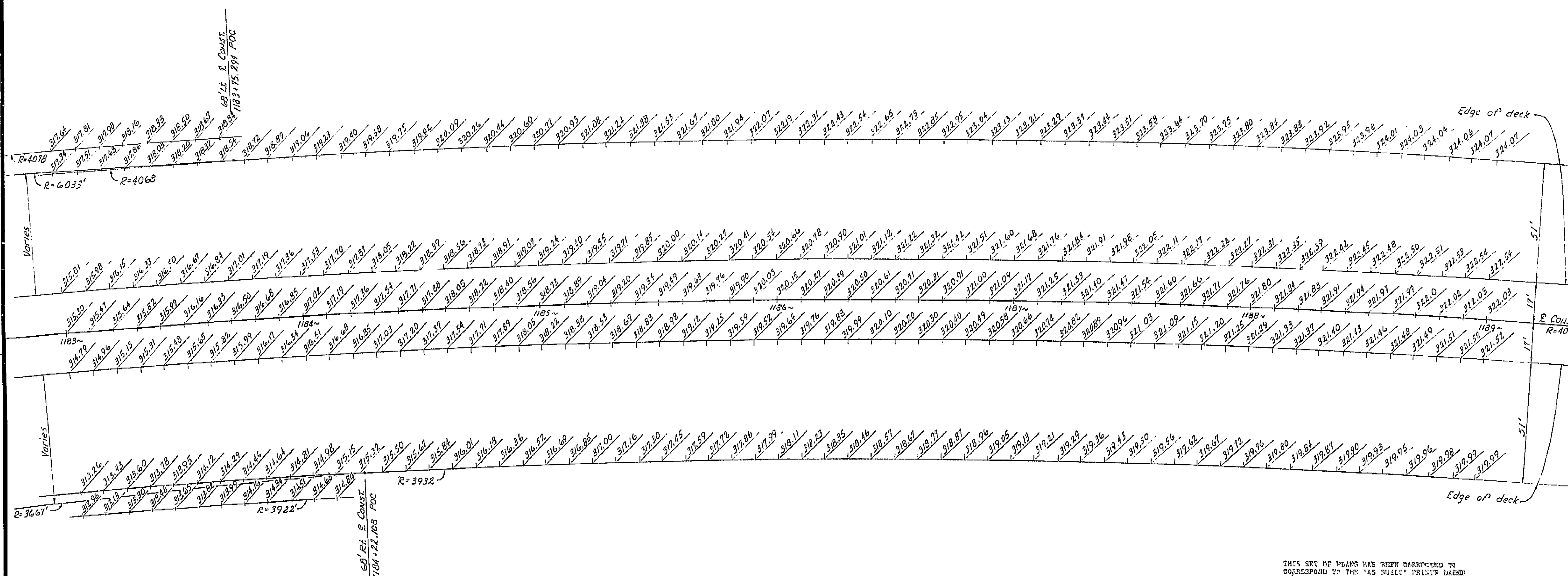
STATE OF CALIFORNIA		
DEPARTMENT OF PUBLIC WORKS		
DIVISION OF HIGHWAYS		
SOUTH FRESNO VIADUCT		
10' GRID OF DECK ELEVATIONS 3		
SCALE 1"=20'	BRIDGE 42-226 R	FILE
DRAWING 42226-72		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE L. J. J. J. TITLE S. R. J. J.





DATE APPROVED October 5, 1959



THIS SET OF PLANS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4-29-66 AS SUBMITTED BY RESIDENT  
OWNER L. Vogel  
DRAWINGS CORRECTED BY: A.S. Egan 7/16/66

NOTE:  
Elevations are calculated radially from profile line  
at 10' stations along & Const.  
These elevations do not include camber.

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT		15
DESIGN SECTION		
Section Supervisor	<i>R. C. Blake</i>	
DESIGN	By <i>Norman B. Bantle</i>	7-1
	Checked <i>HAFSTAD</i>	2-
DETAILS	By <i>W12 J FAD1</i>	8-
	Checked <i>GB</i>	1-
QUANTITIES	By _____	
	Checked _____	

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

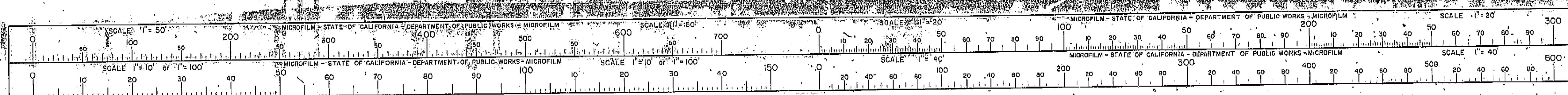
SOUTH FRESNO VIADUCT

10' GRID OF DECK ELEVATIONS 2

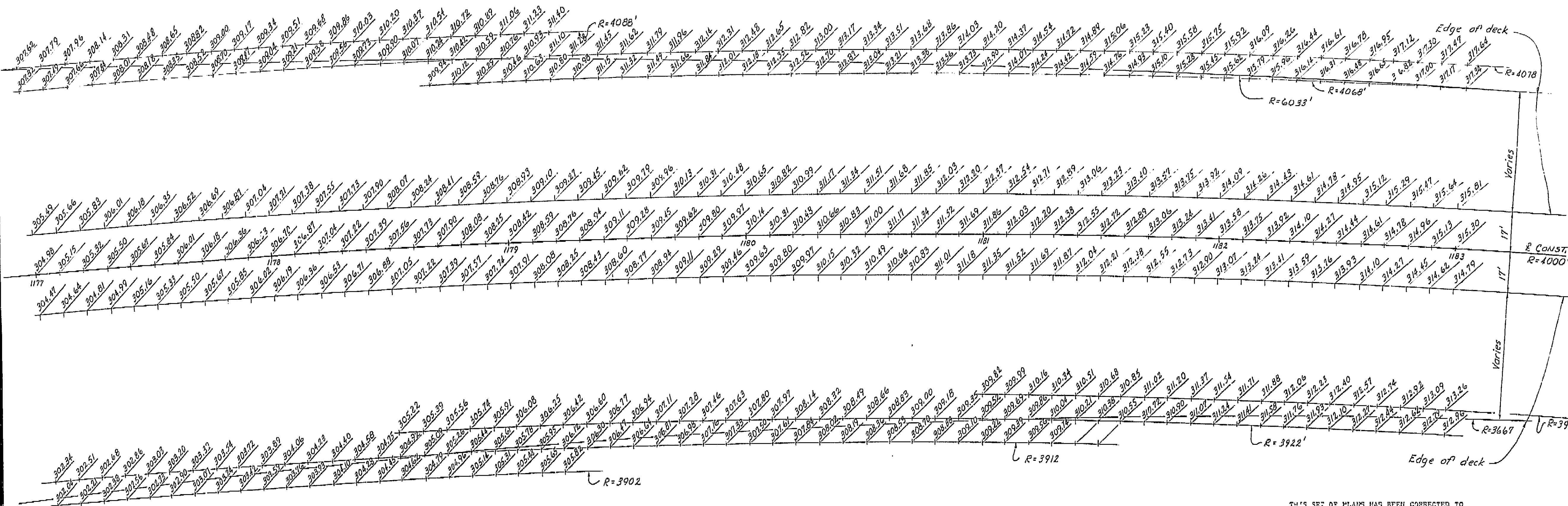
SCALE	1" = 20'	BRIDGE 42-226 <sup>R/L</sup>	FILE	DRAWING 42226-7
PHELYMINARY DRAWING NO.		REVISION DATES		
P-		<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">7/14</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">MR 18</div> </div>		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 3-14-77 SIGNATURE *James E. Smith* TITLE *Sr RMO*







THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66 AS SUBMITTED BY RESIDENT ENGINEER. ELEVATIONS CORRECTED BY 2.5 DAYS: 7/6/66

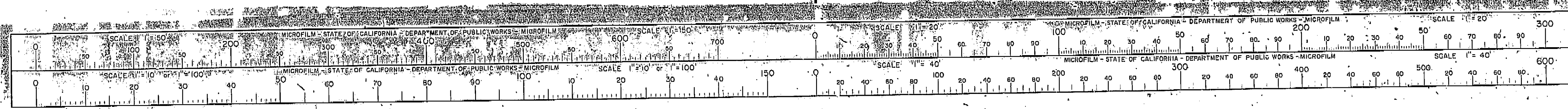
NOTE: Elevations are calculated radially from profile line at 10' stations along & Const. These elevations do not include camber.

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

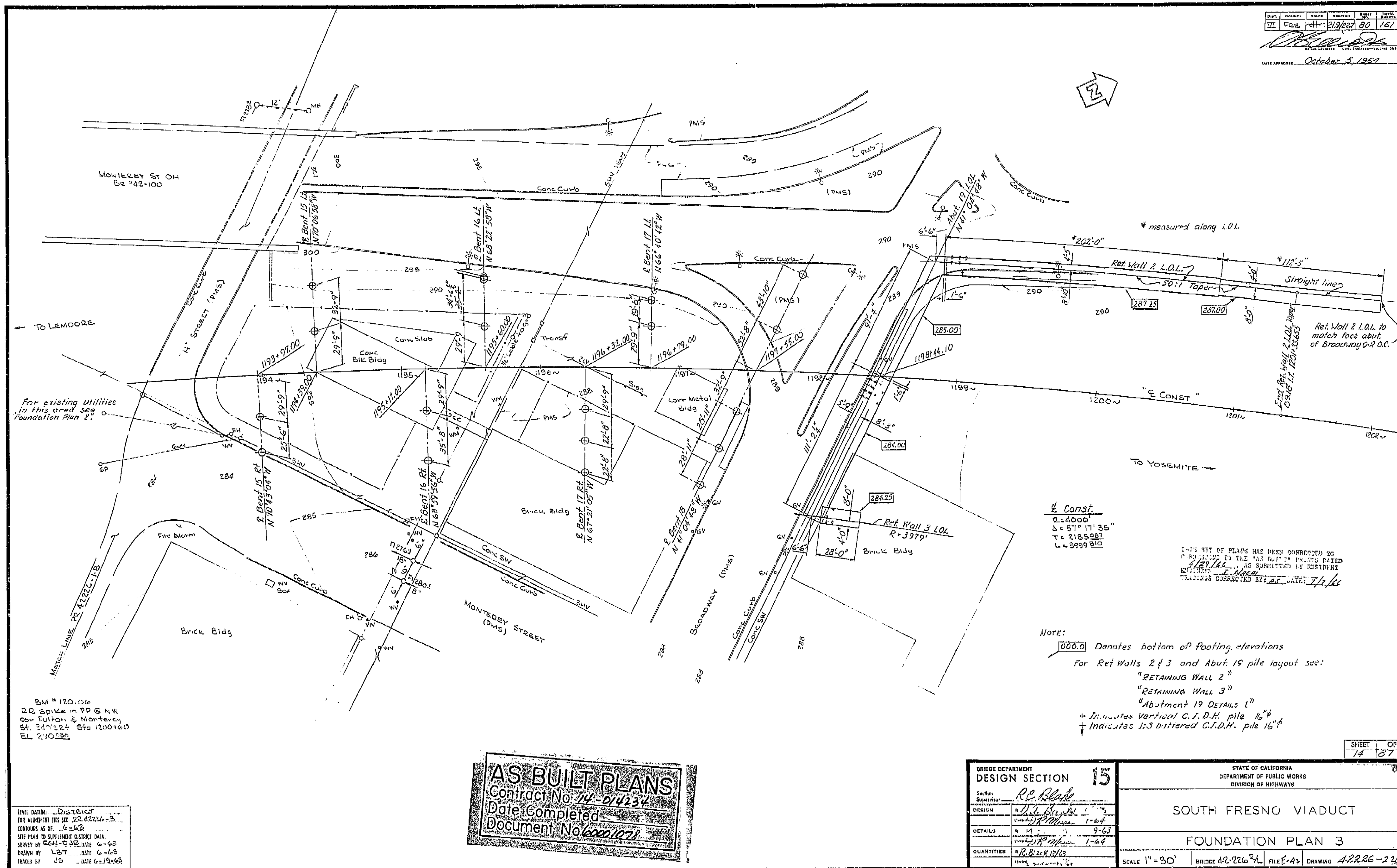
BRIDGE DEPARTMENT		
DESIGN SECTION 15		
Section Supervisor	R.C. Blalock	
DESIGN	By	Urbum G. Blalock 7-23
	Checked	H.A. FAD 1-64
DETAILS	By	MICUTAJI 8-63
	Checked	GH 1-64
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
10' GRID OF DECK ELEVATIONS 1			
SCALE 1"=20'	BRIDGE 42-226 R	FILE	DRAWING 42226-70
PRELIMINARY DRAWING NO. P.			
REVISION DATES			

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DATE 2-14-77 SIGNATURE [Signature] TITLE SR RMO

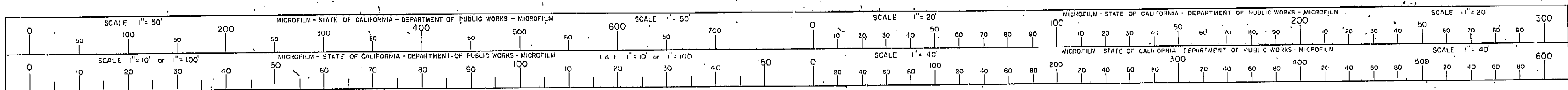




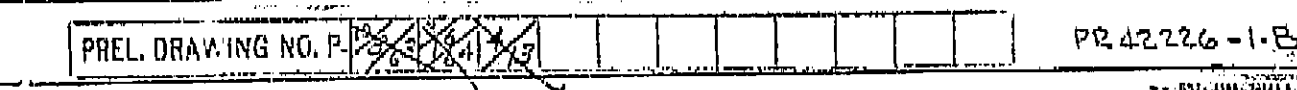


I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 2-17-72 SIGNATURE: [Signature] TITLE: SR RMO







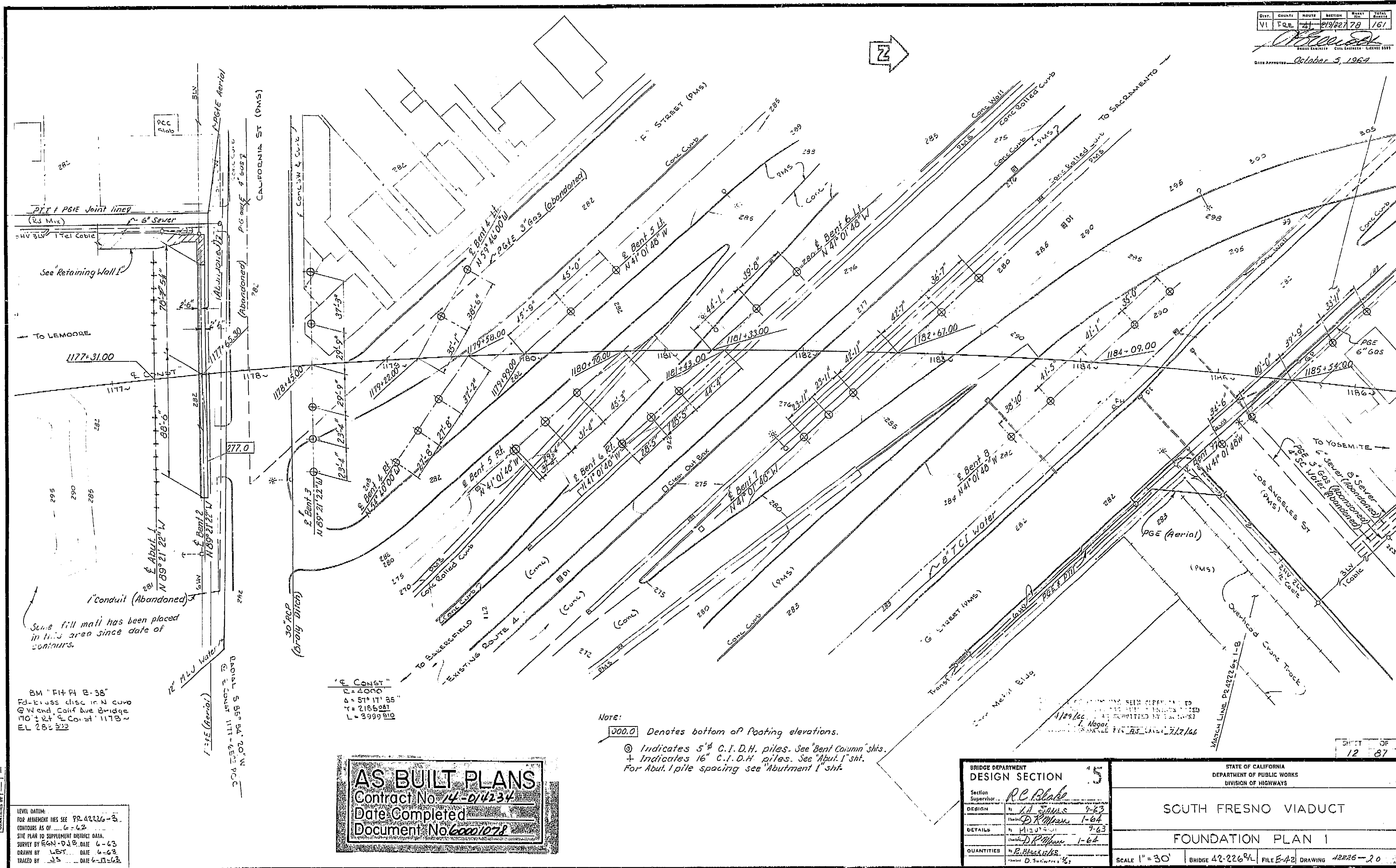
SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'

0 100 200 300 400 500 600 700 0 10 20 30 40 50 60 70 80 90 100 200 300 400 500 600 700 800 900 1000

SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 10' or 1" = 100' SCALE 1" = 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 40'

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600





REVISION	DATE	BY	REASON
1	12/3/64	W.C.	AS BUILT

BM "FH 4 B-38"  
 Fd. cross disc in N curb  
 @ W end, Calif Ave Bridge  
 170' 4" RT & Co. st 1178 ~  
 EL 282.923

LEVEL DATUM:  
 TOP MINIMUM HAS SEE 72-2226-3.  
 CONTOURS AS OF 6-63  
 SITE PLAN TO SUPPLEMENT DISTRICT DATA.  
 SURVEY BY EGN-DJ.B. DATE 6-63  
 DRAWN BY L.B.T. DATE 6-63  
 TRACED BY J.S. DATE 6-17-63

**AS BUILT PLANS**  
 Contract No. 74-D-1434  
 Date Completed  
 Document No. 60001028

Note:

000.0 Denotes bottom of footing elevations.

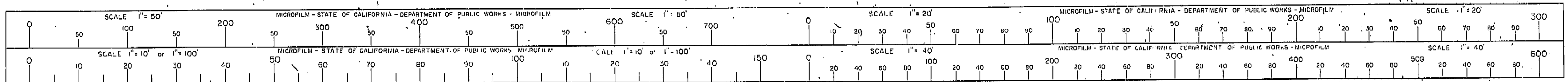
⊙ Indicates 5' C.I.D.H. piles. See Bent Column'shts.  
 + Indicates 16" C.I.D.H. piles. See Abut. 1'sht.  
 For Abut. 1 pile spacing see Abutment 1'sht.

BRIDGE DEPARTMENT DESIGN SECTION	
Section Supervisor	R.E. Blake
DESIGN	by L.D. Evans 9-63 checked D.R. Myers 1-64
DETAILS	by M.J. Smith 7-63 checked D.R. Myers 1-64
QUANTITIES	by R. Black 1-63 checked D. S. K. 1-63

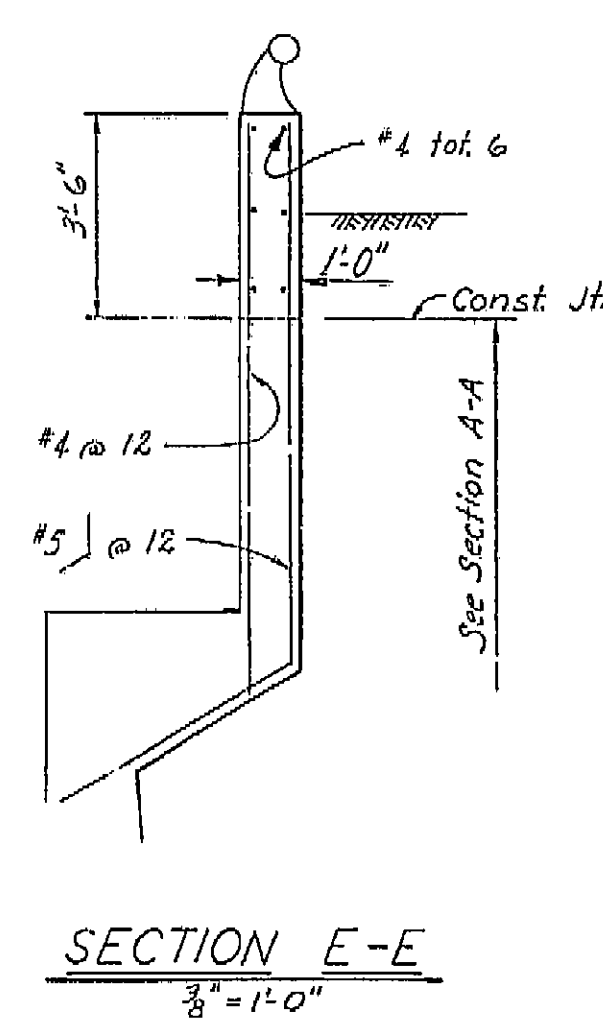
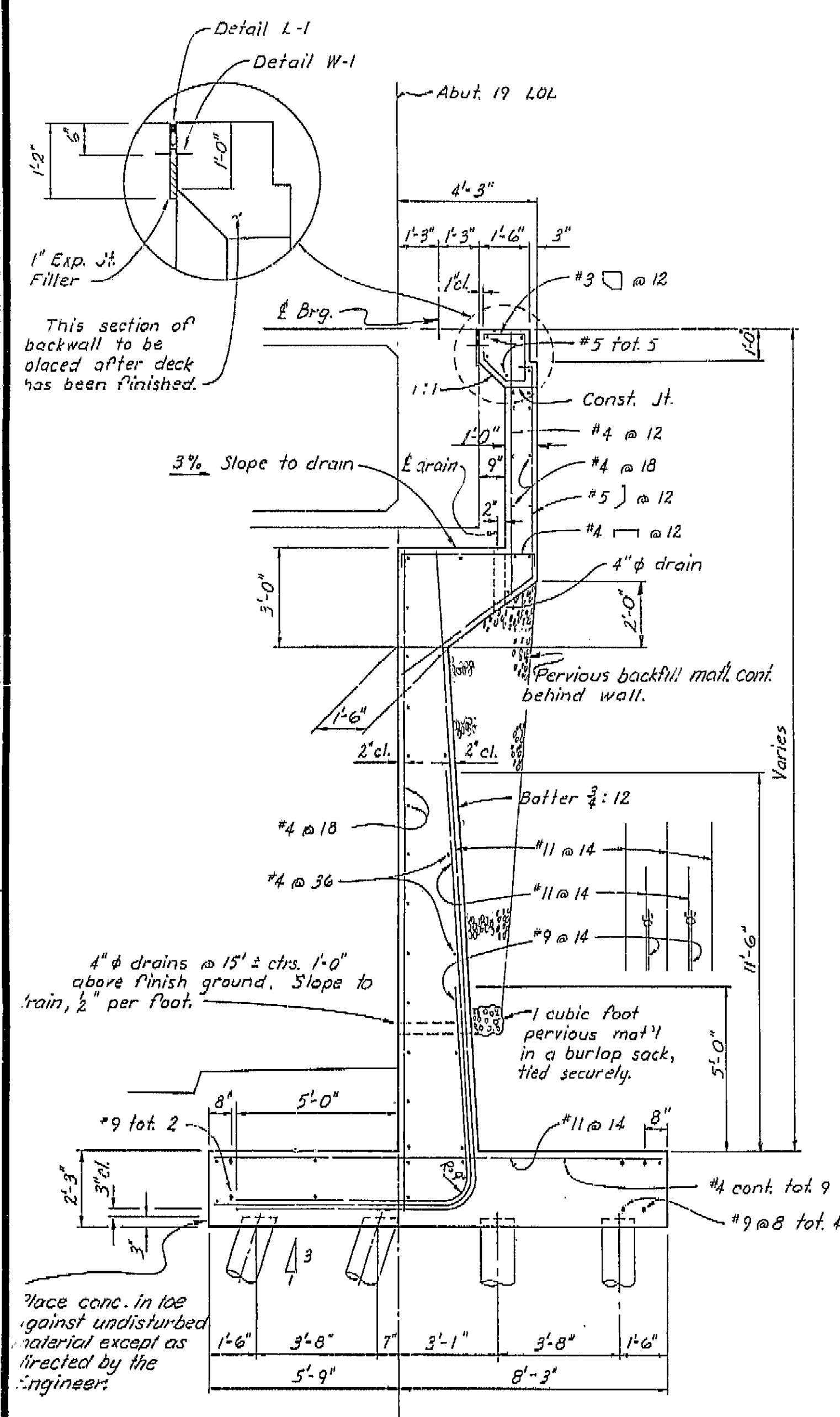
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
FOUNDATION PLAN 1	
SCALE 1" = 30'	BRIDGE 42-226-1A FILE E-12 DRAWING 42226-20

PREL. DRAWING NO. PR 42226-1A

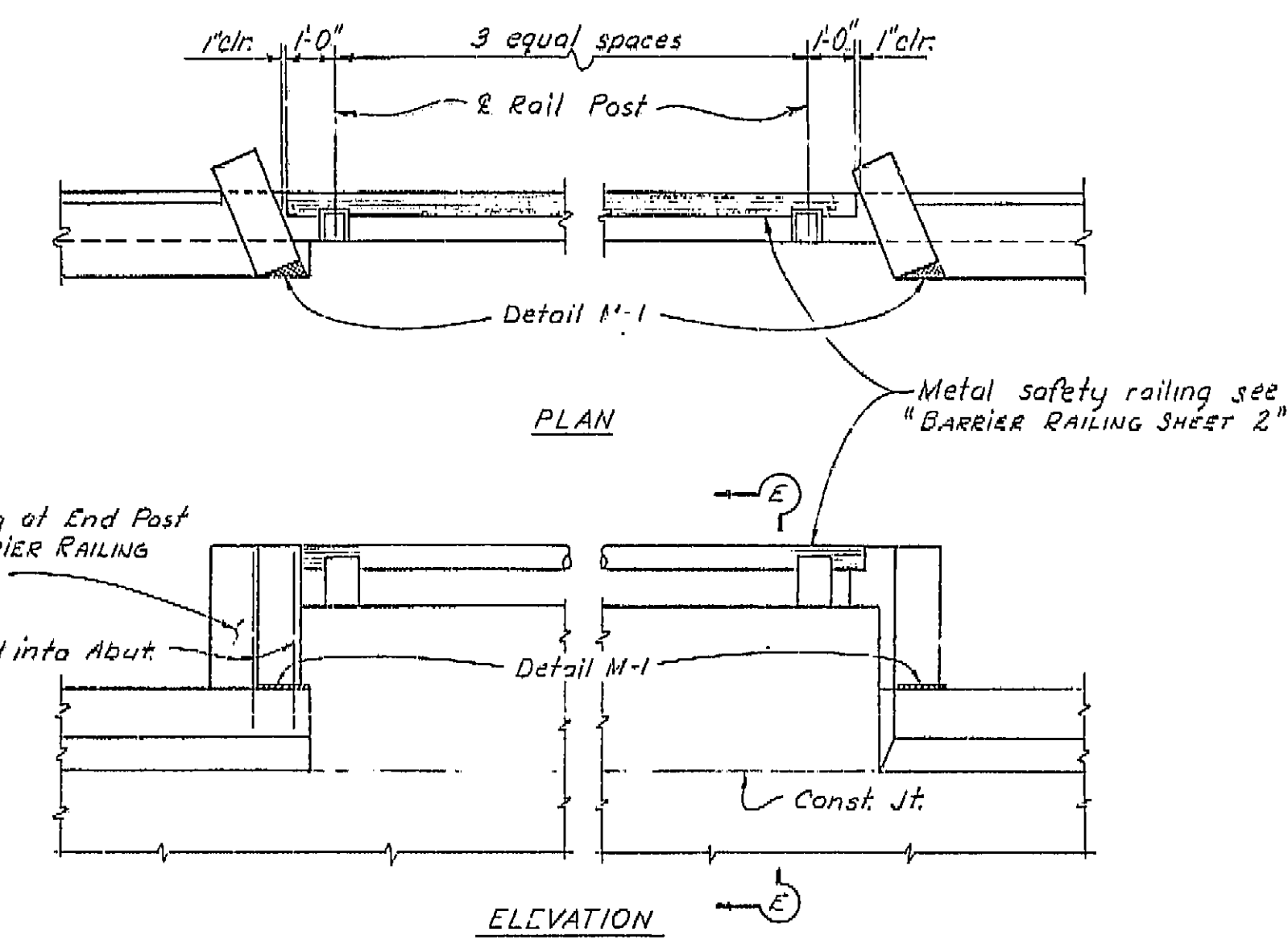
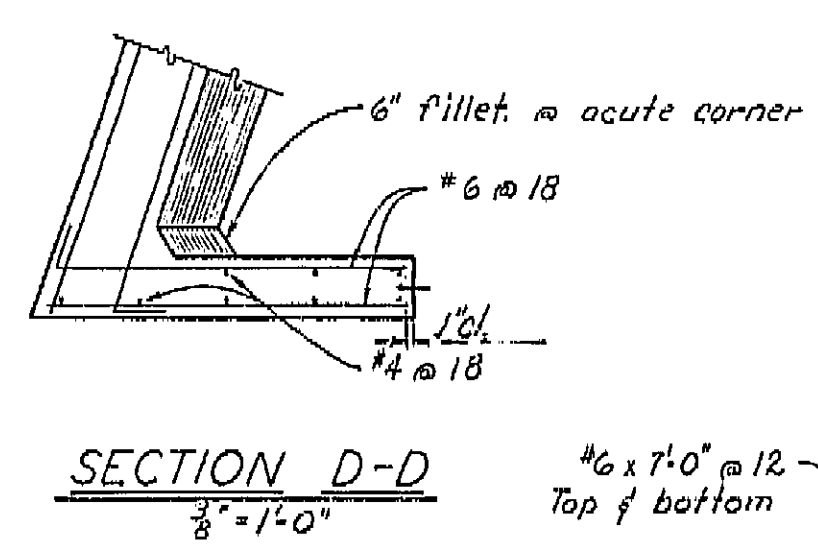
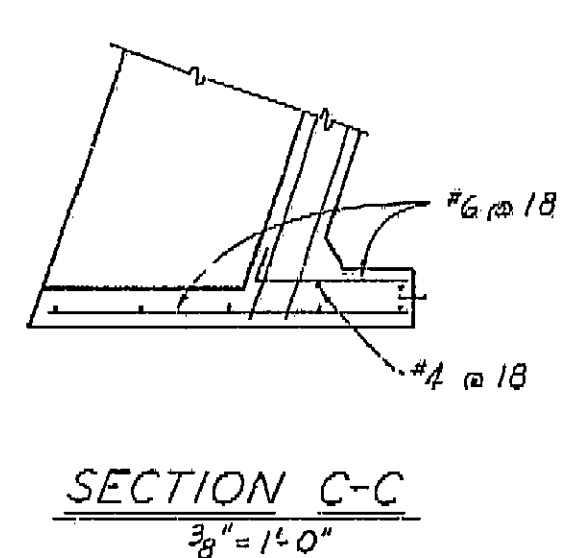
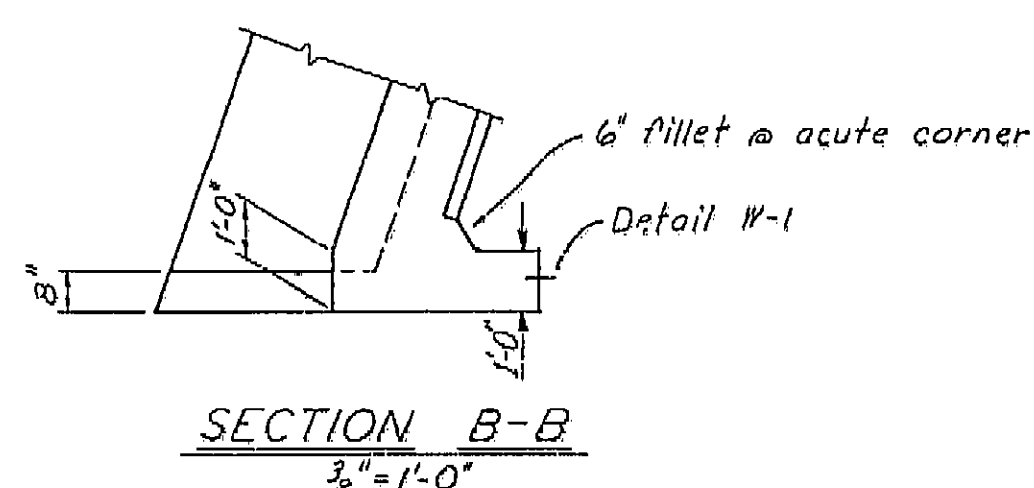
HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS  
 DATE 12-22-72 SIGNATURE [Signature] TITLE [Title]





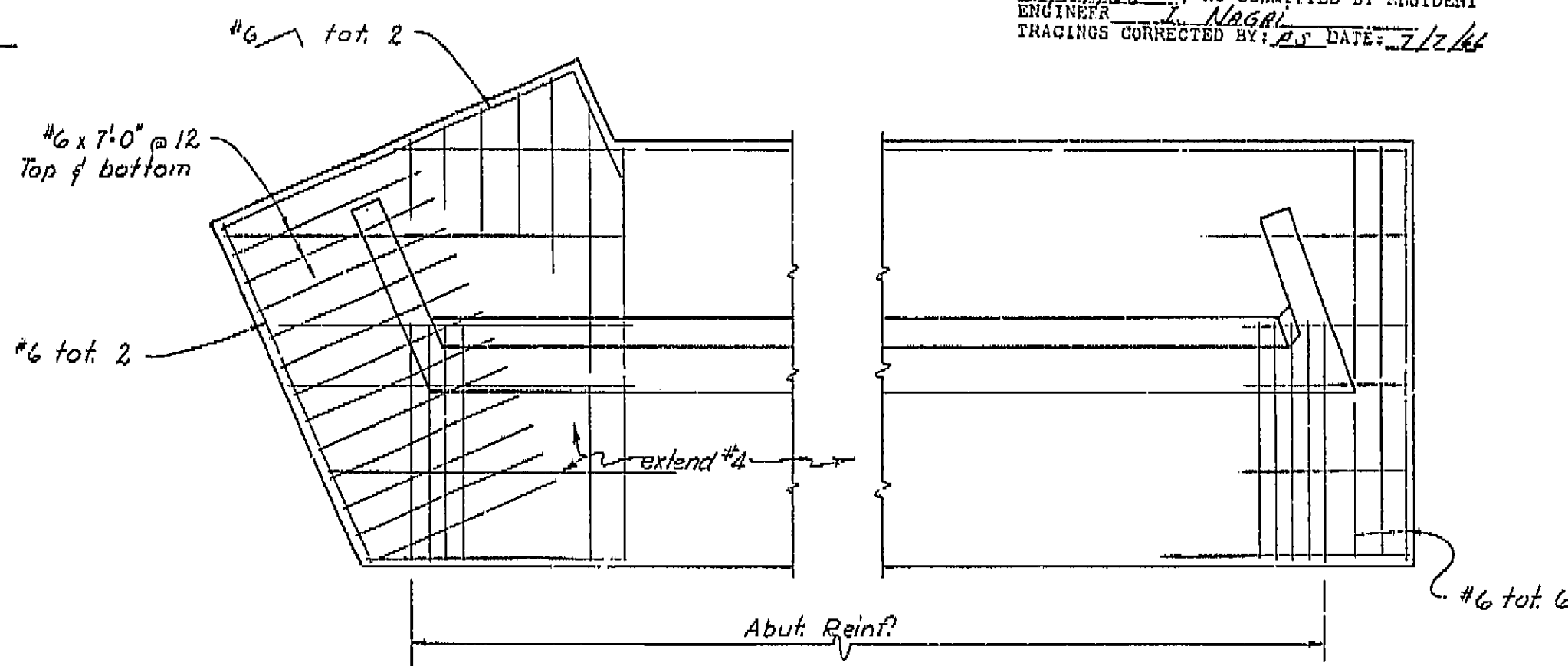


Note: South Abut corner shown. North Abut. corner similar.



PARAPET DETAILS  
3/8" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER. TRACINGS CORRECTED BY: [Signature] DATE: 7/2/66

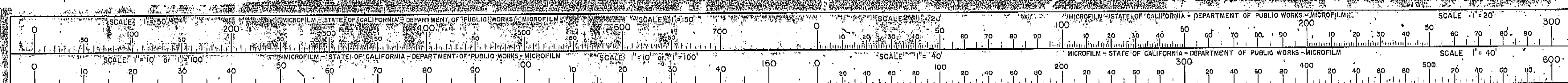


**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

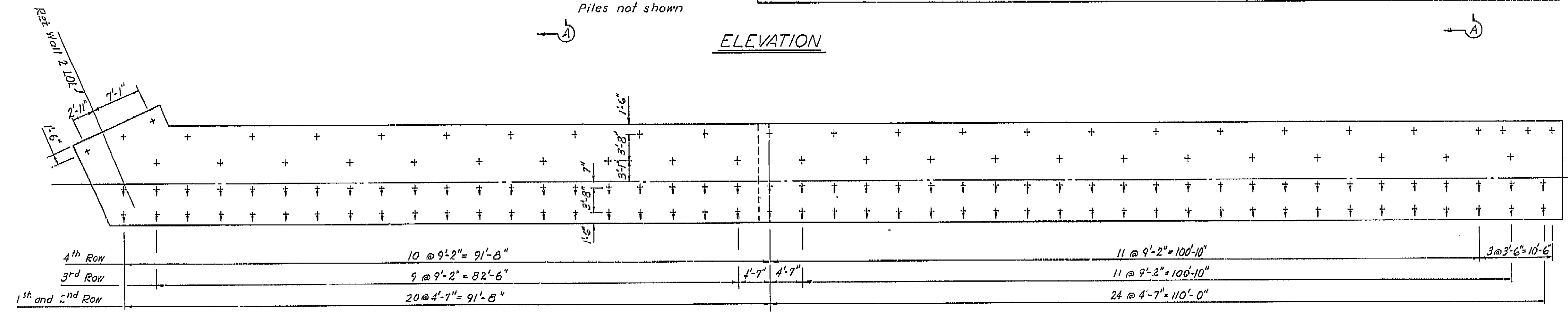
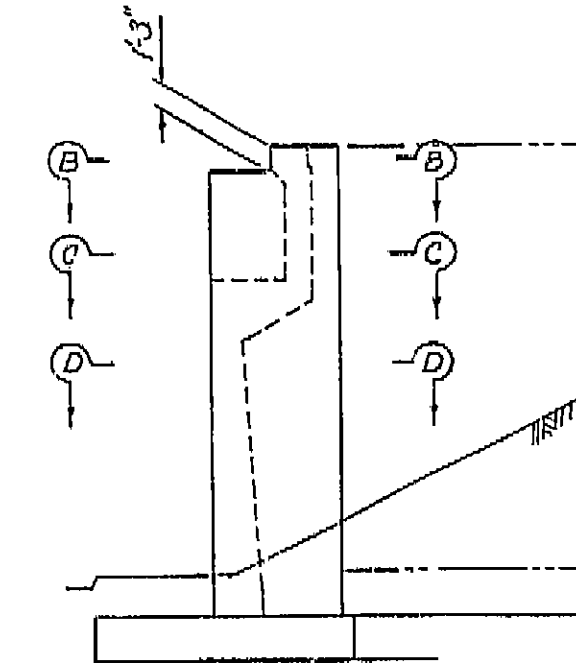
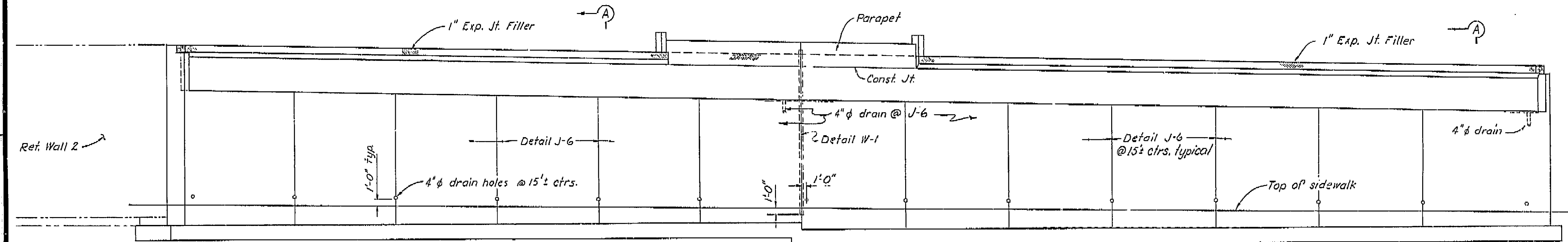
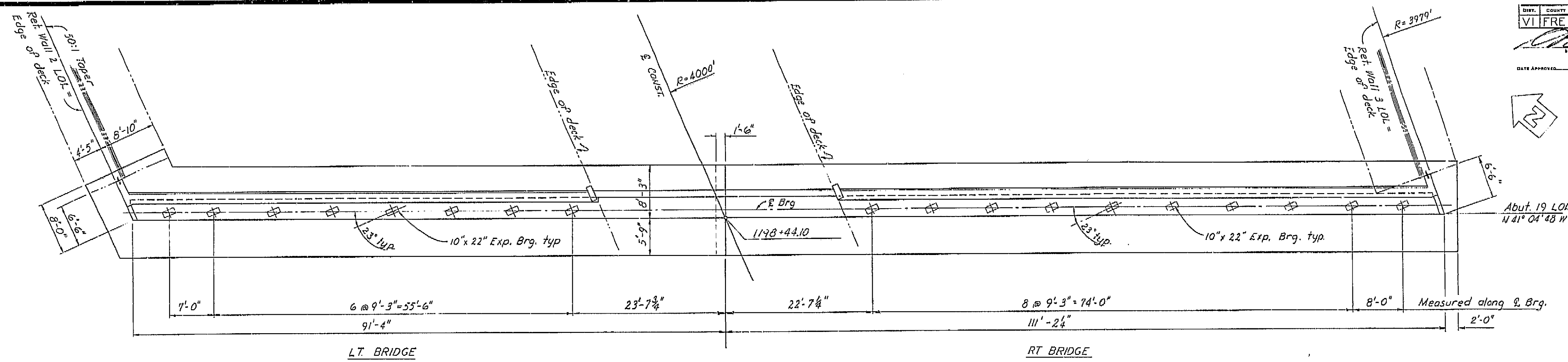
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.C. Blah
DESIGN	By H.A. Bock 9-63
DETAILS	By J.P. Hunter 11-64
QUANTITIES	By R.B. Black 12/63
Checked	D. Sudweeks 1-64

STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
ABUTMENT 19 DETAILS 2	
SCALE AS NOTED	BRIDGE 42-226 R/L
FILE	DRAWING 42226-26

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DATE 2-14-72 SIGNATURE [Signature] TITLE S.D. RMC







Abut. 19 LOL  
N 41° 04' 48" W

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER, Wagon.  
TRACINGS CORRECTED BY: JS DATE: 7/7/66

SHEET OF  
20 37

**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

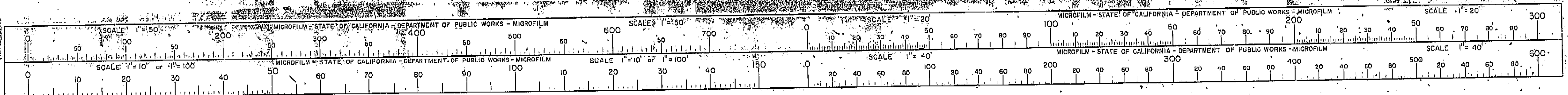
Note: See "Abutment 19 Details 2" For:  
Sections A-A, B-B, C-C and D-D.  
Parapet Details.  
Footing Corner Details.  
+ indicates 16" C.I.D.H. vertical pile.  
+ indicates 16" C.I.D.H. 1:3 battered piles.

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	<u>R.C. Black</u>
DESIGN	by <u>L. Banks</u> 9-63
DRAWN	by <u>J.R. Hunter</u> 7-64
DETAILS	by <u>M. Mizutani</u> 9-63
CHECKED	by <u>J.R. Hunter</u> 7-64
QUANTITIES	by <u>R.B. Black</u> 12/63
CHECKED	by <u>D. S. ...</u> 7-65

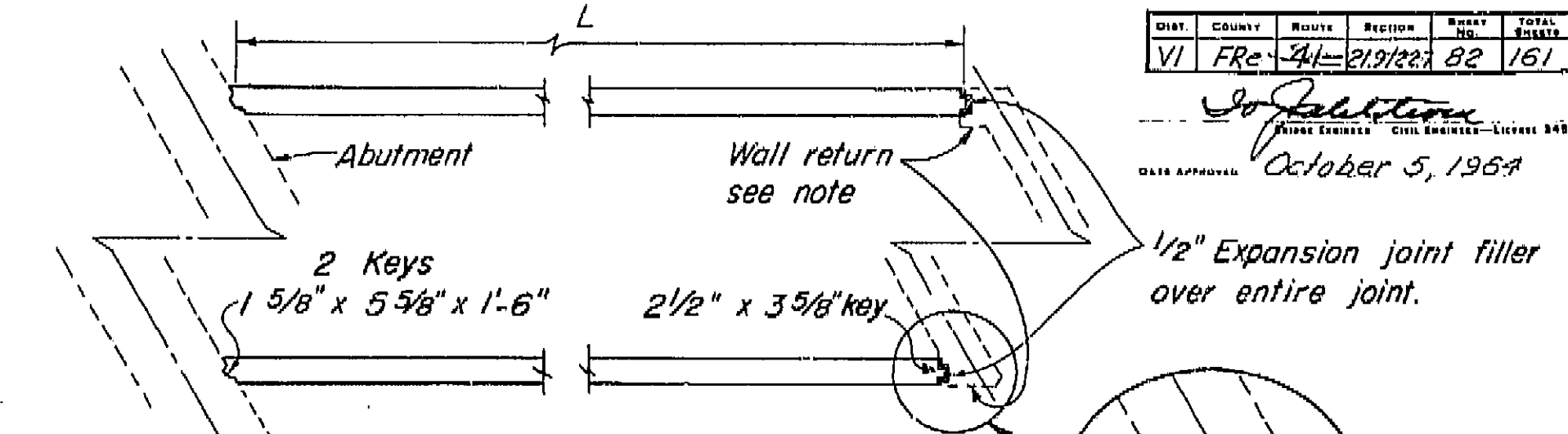
STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
ABUTMENT 19 DETAILS 1	
SCALE 1/8" = 1'-0"	BRIDGE 42-226
FILE	DRAWING 42226-15

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE Sr. RMC

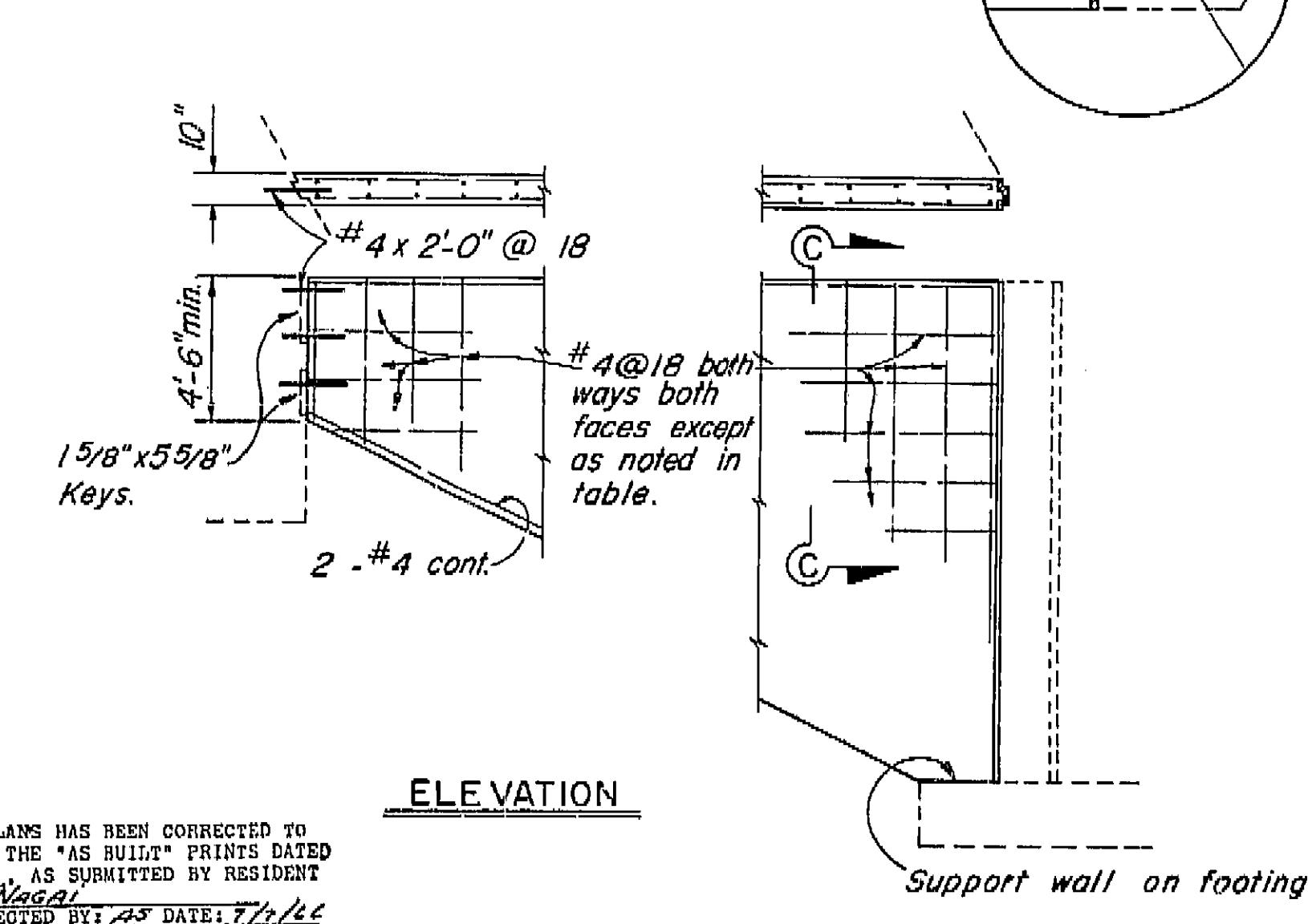
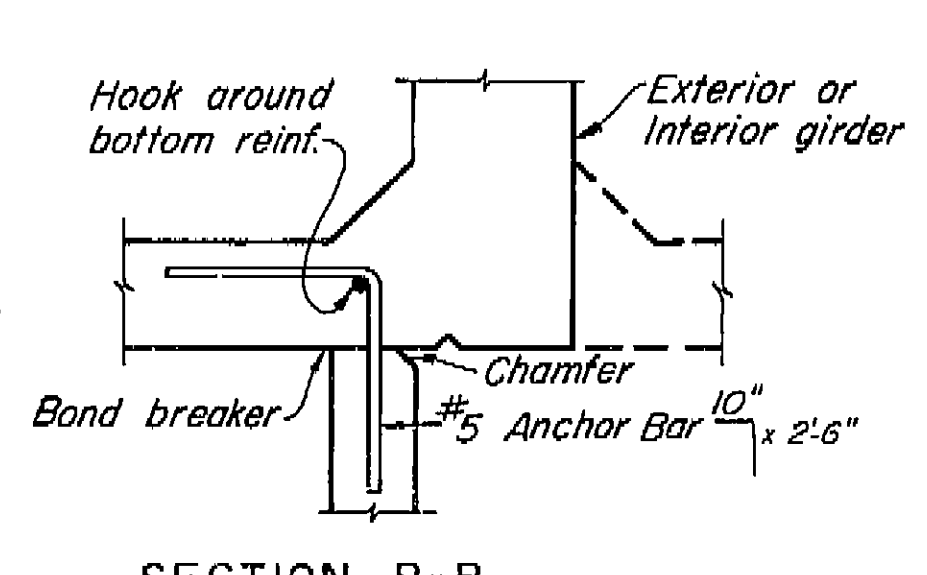






PLAN  
*Skew not to scale*

THIS SET OF PLANS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4/29/66 . AS SUBMITTED BY RESIDENT  
ENGINEER J. NAGAI  
TRACINGS CORRECTED BY: AS DATE: 7/7/66

ELEVATION

SECTION C-C

HORIZONTAL REINFORCEMENT INSIDE FACE TOP 8 FEET OF WALL	
L	
to 20	#4 @ 18
20 to 25	#4 @ 12
25 to 30	#4 @ 9
30 to 35	#4 @ 6
35 to 40	#4 @ 5
40 to 45	#5 @ 6
45 to 50	#5 @ 5

NOTE: This Alternative Used

NOTE: This Alternative Used  
CAST-IN-PLACE, ALTERNATIVE 4

1. Wall return may be omitted for skews  $20^\circ$  or less.
2. Wall to be placed after piers and abutments.

SHEET	OF
16	87

H	Alt. 1	Alt. 2	Wall Thickness	
	@ bars	Pf	Alt. 1	Alt. 2
10 & less	#4 @ 18	7,200 lbs.	6"	4"
12	#4 @ 18	10,600 lbs.	6"	4"
14	#4 @ 12	14,400 lbs.	6"	4"
16	#4 @ 10	18,200 lbs.	6"	4"
18	#4 @ 8	23,500 lbs.	6"	4"
20	#4 @ 6	28,800 lbs.	6"	4"
22	#4 @ 7	22,300 lbs.	8"	5"
24	#4 @ 6	26,600 lbs.	8"	5"
26	#4 @ 5	31,200 lbs.	8"	5"

- NOTES:**
1. Contractor to determine size of panels and location of anchorages. Panels shall be approximately equal in width within limits shown. Maximum weight of any panel not to exceed 10,000 lbs.
  2. Panels to be backfilled uniformly on each side.
  3. Panels shall conform to horizontal and vertical alignment.
  4. Panels to be erected vertically.
  5. All parts of anchorages and tie bar assembly to be galvanized.
  6.  $\frac{a}{b}$  bars or Pf may be selected for average H of any one panel.

VERTICAL REINFORCEMENT AND WALL THICKNESS			
H	Ⓟ bars	Wall Thickness	Max. Spacing of Anchor Rods
10 & less	#4 @ 16	4"	*36"
12	#4 @ 12	4"	*36"
14	#4 @ 9	4"	*36"
16	#4 @ 10	6"	*24"
18	#4 @ 8	6"	*24"
20	#4 @ 6	6"	*24"
22	#4 @ 7	8"	12"
24	#4 @ 6	8"	12"
26	#4 @ 5	8"	12"

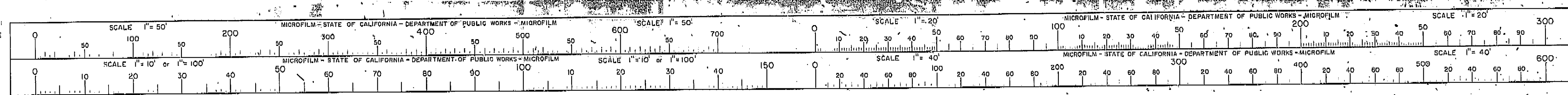
- NOTES:**
1. Welded wire fabric of equivalent area, and minimum spacing of 3 inches, may be substituted for reinforcement shown.
  2. Wall return may be omitted for skews  $20^\circ$  or less.
  3. Walls to be backfilled uniformly on each side.
  4. Expansion joint filler to be cast into pier and abutment walls.
  5. Anchor rods to be galvanized.
  6. Where anchor rods are located within the center half of a bay, measured face to face of girders, the maximum spacing is 12 inches.

BRIDGE DEPARTMENT	
DESIGN SECTION	
Section Supervisor	<i>R.C. Blake</i>
DESIGN	By _____ (initial)
DETAILS	By _____ (initial)
QUANTITIES	By _____ (initial)

3/63			STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		
SOUTH FRESNO VIADUCT					
CLOSURE WALL DETAILS (BOX GIRDER)					
SCALE NONE	BRIDGE 42-226	KS-22-6 FILE	DRAWING 42226-19		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

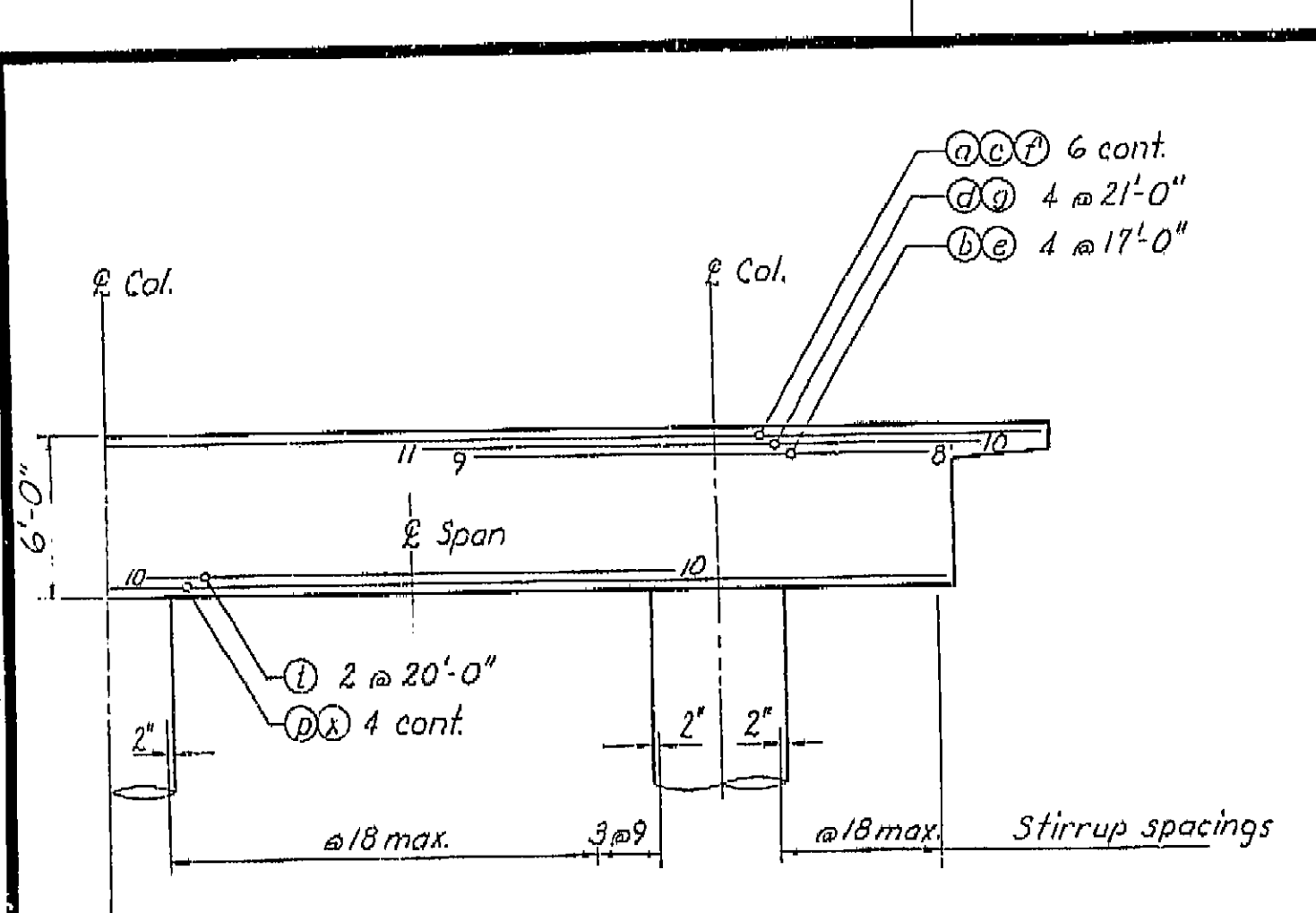
DATE 2-14-72 SIGNATURE Louis E. Court TITLE Sr. RMC.



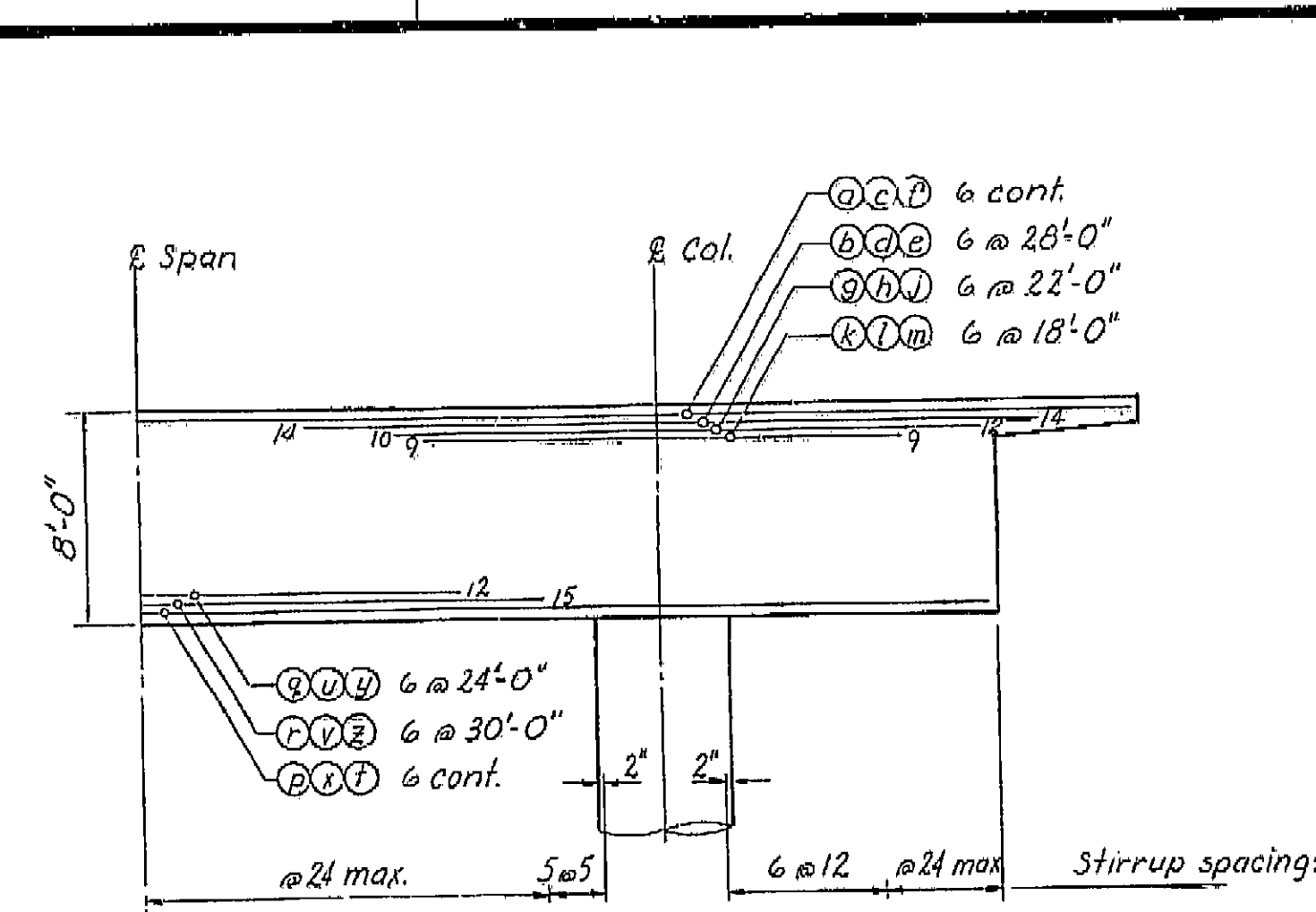




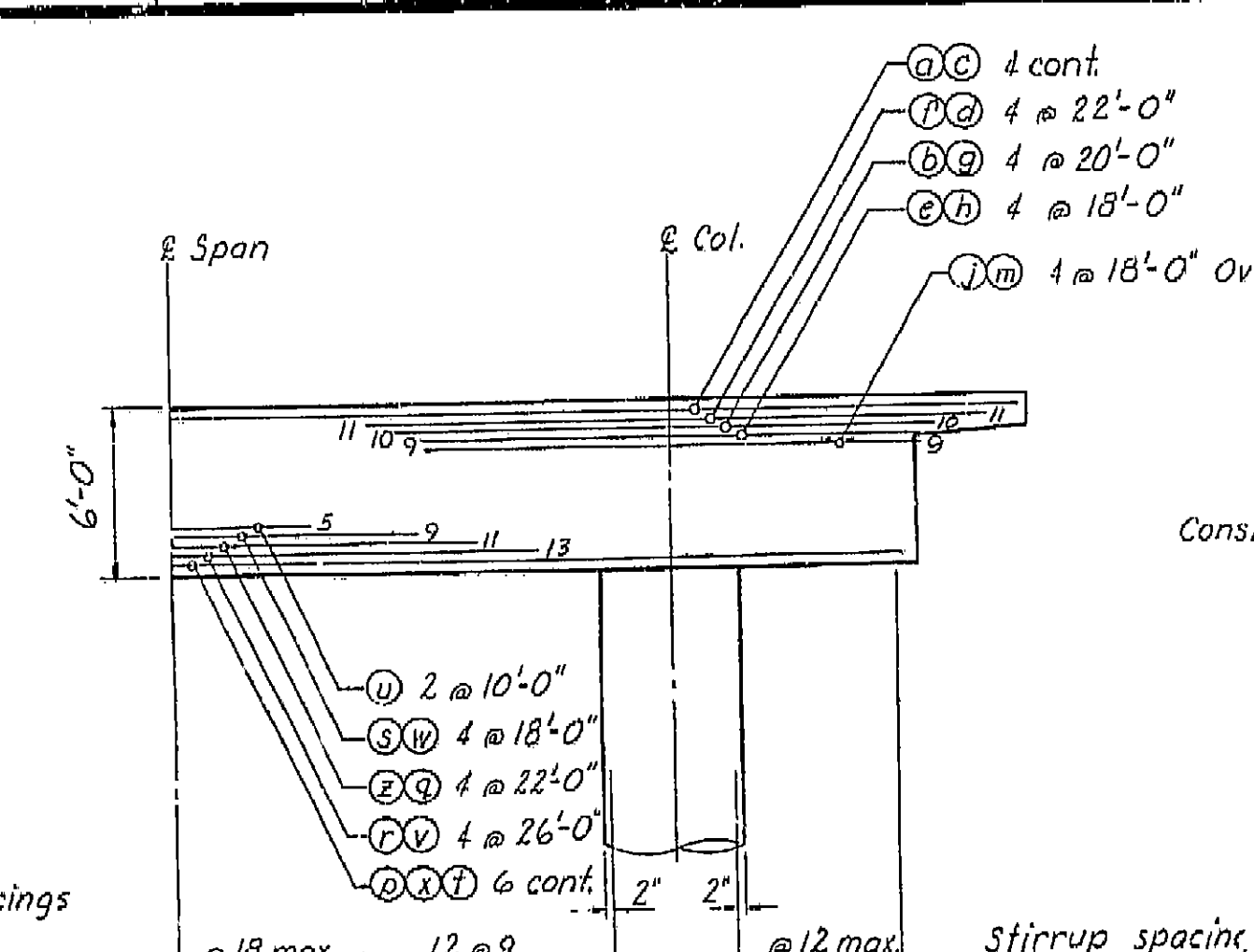




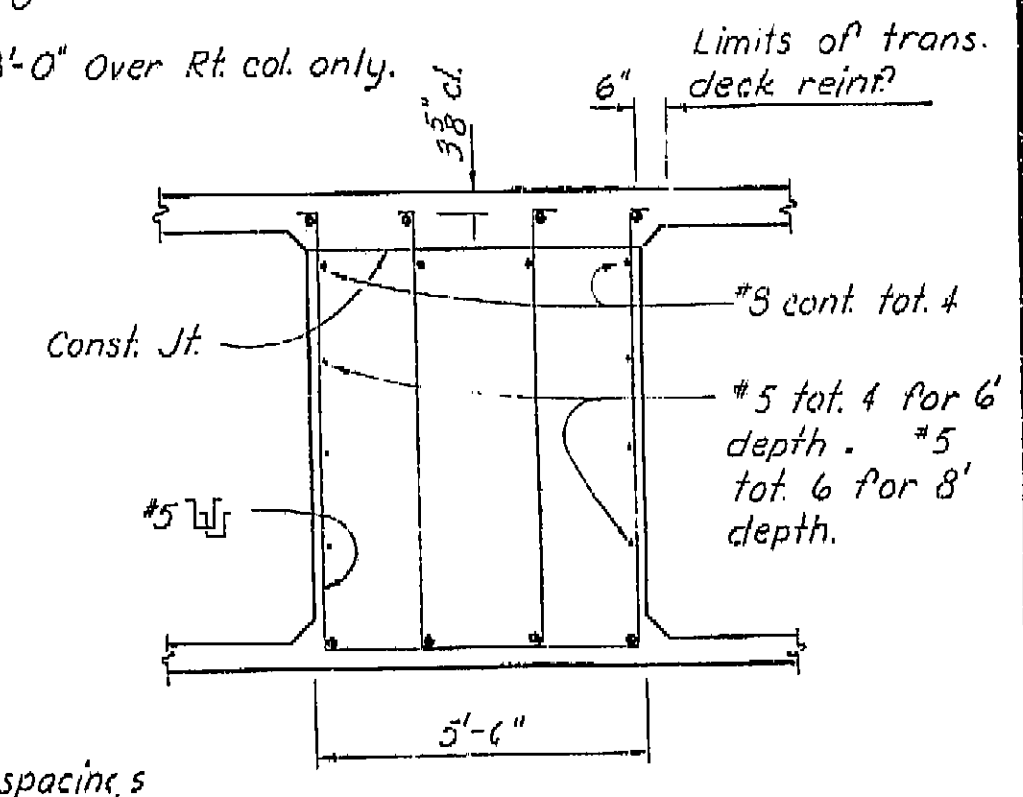
BENTS 3 & 17



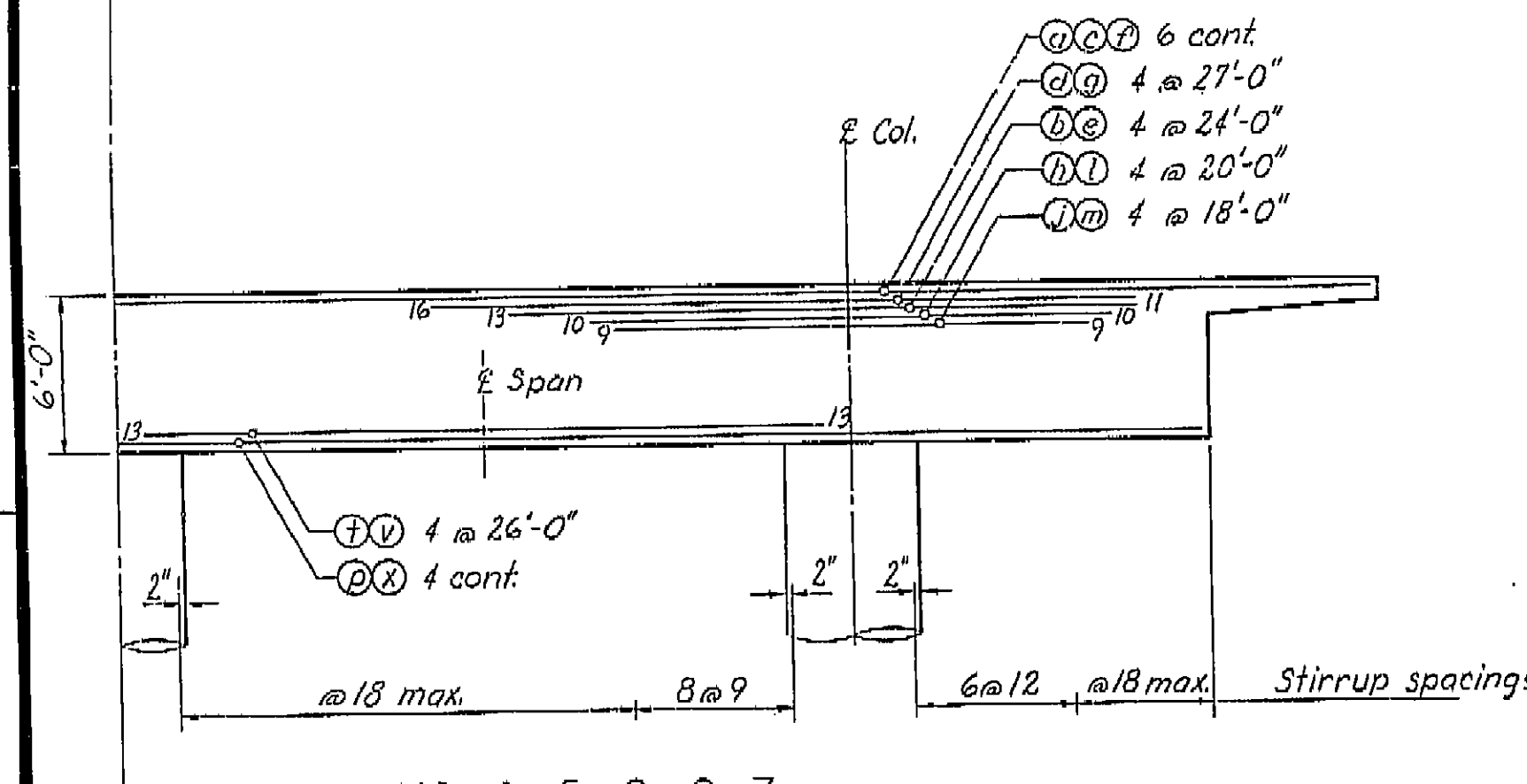
BENT 8



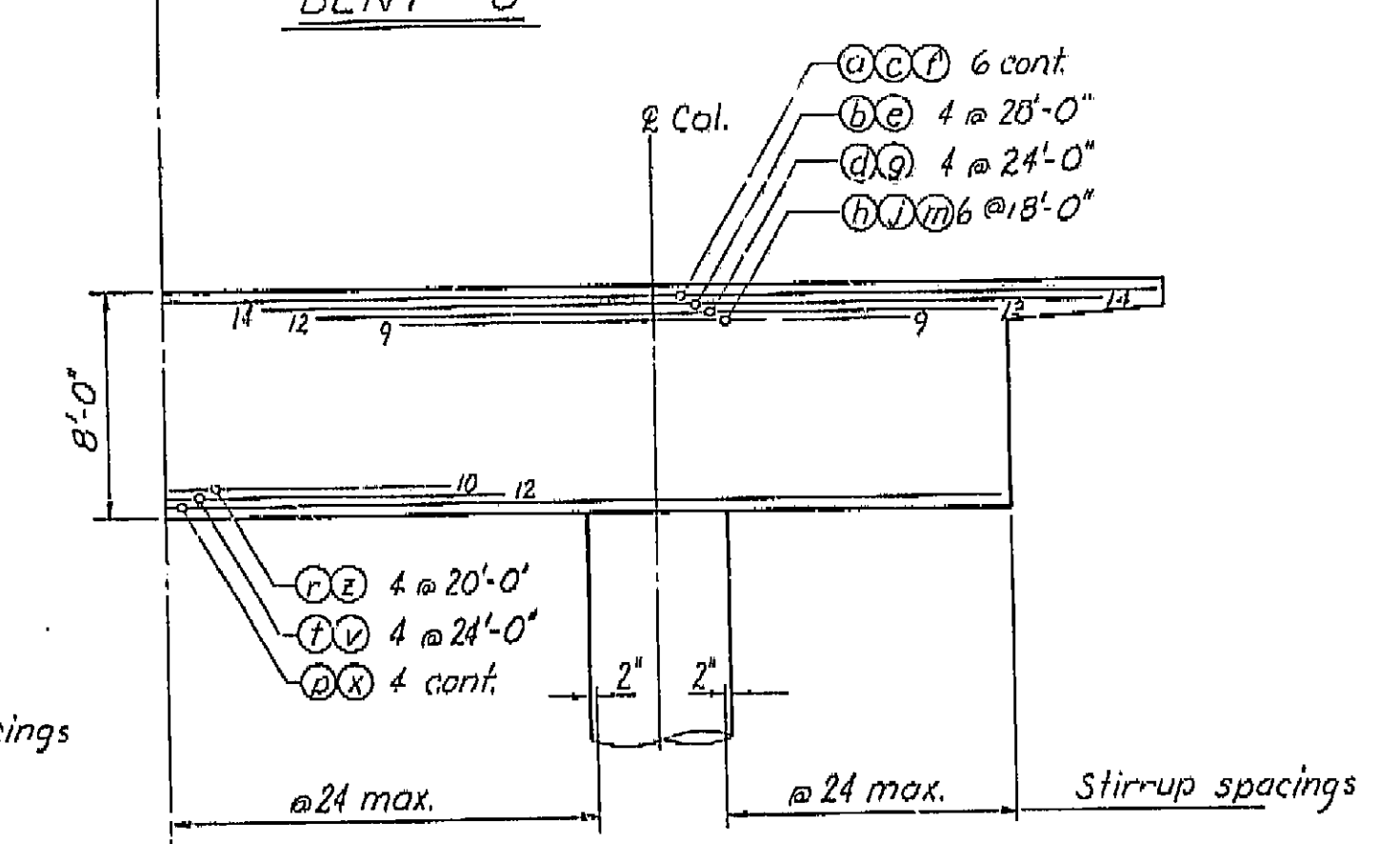
BENT 16



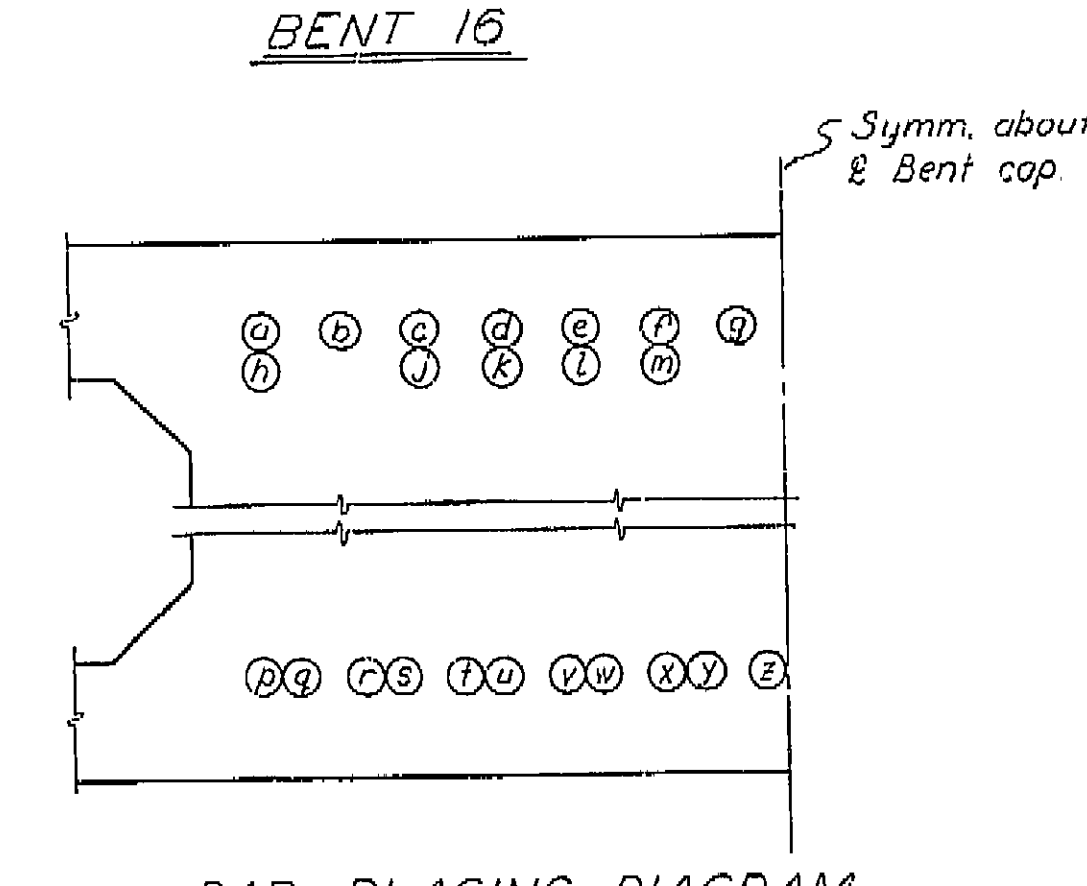
CAP SKEWED 15° OR LESS



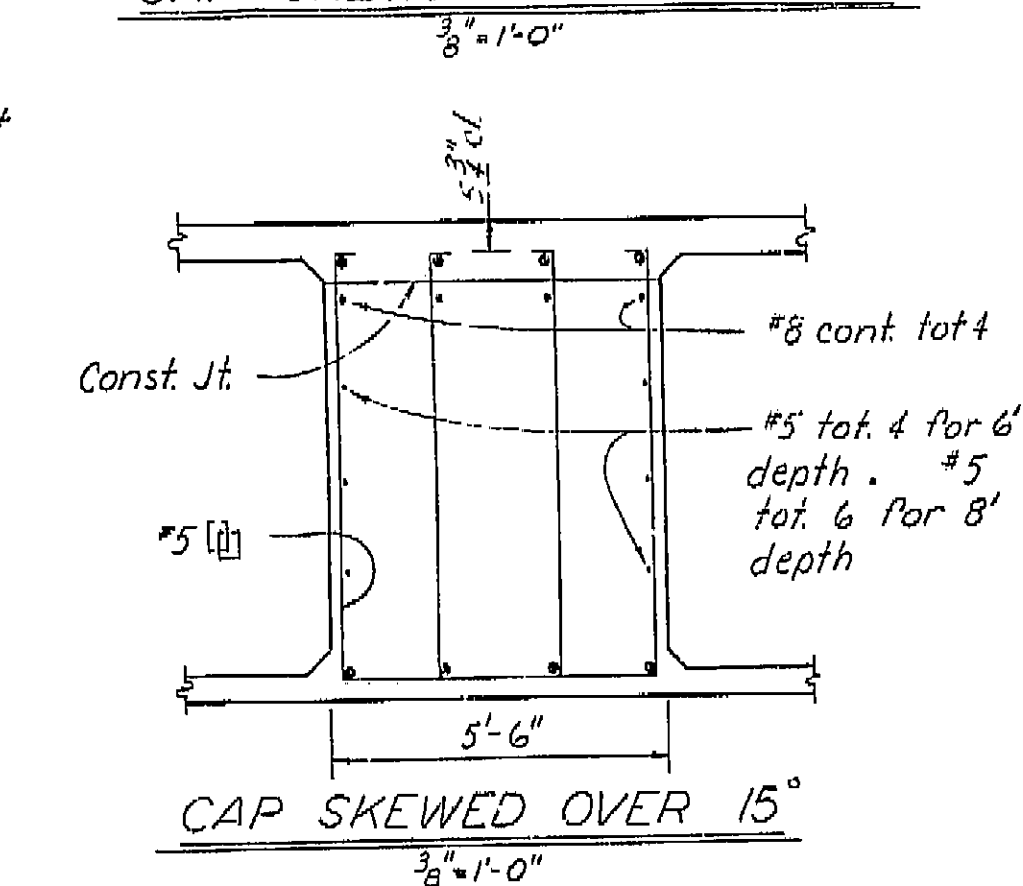
BENTS 4, 5, 6 & 7



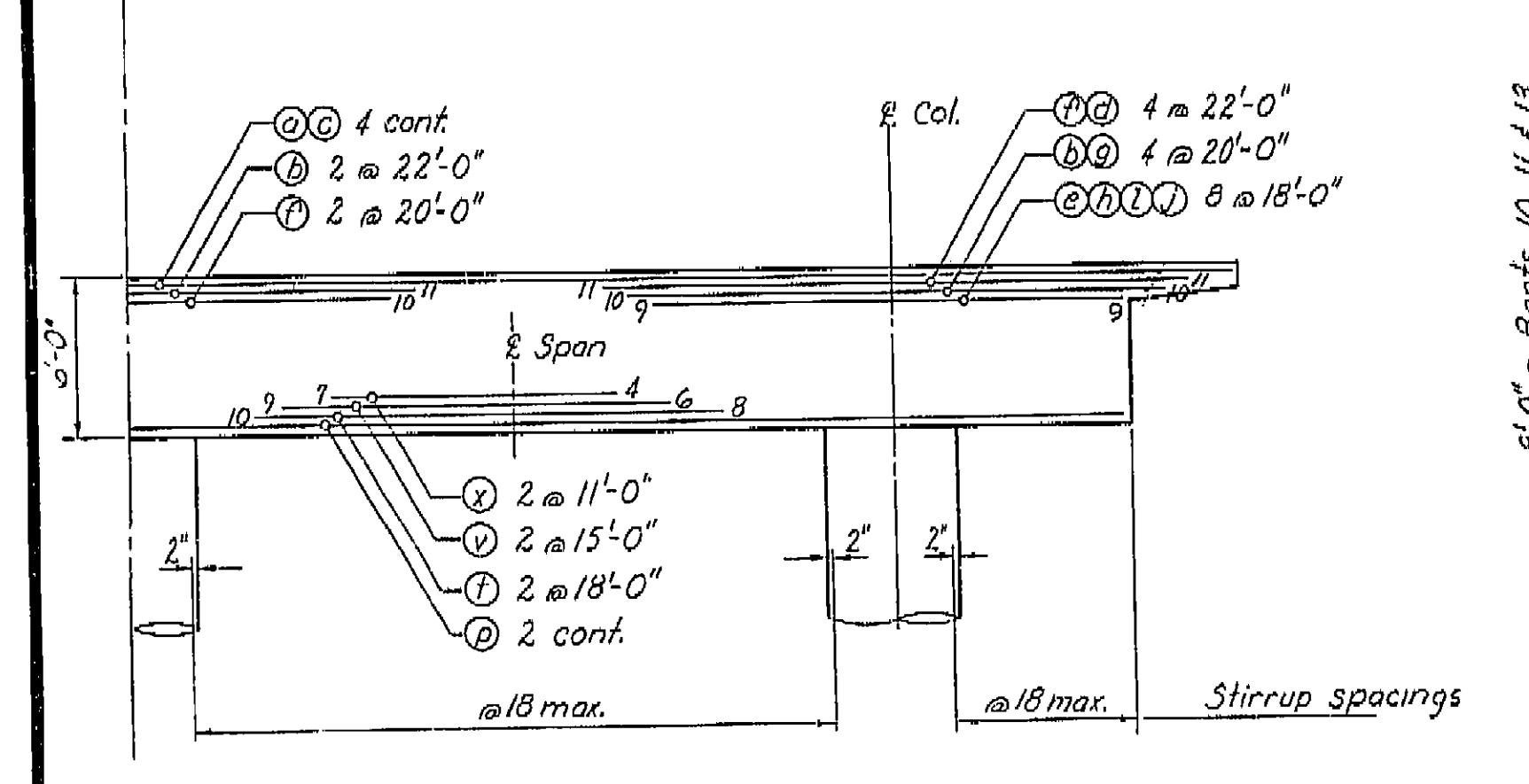
BENT 9



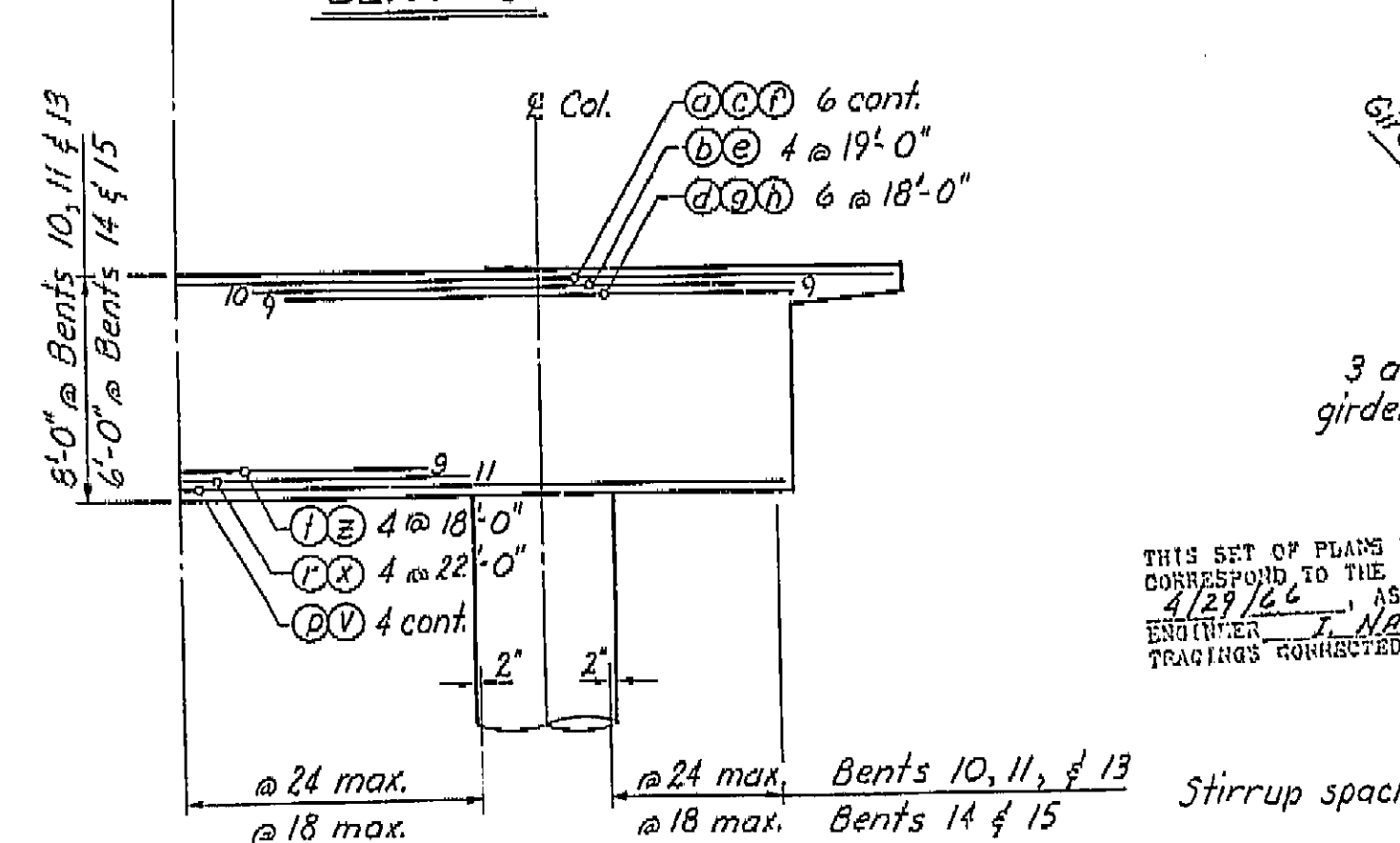
BAR PLACING DIAGRAM



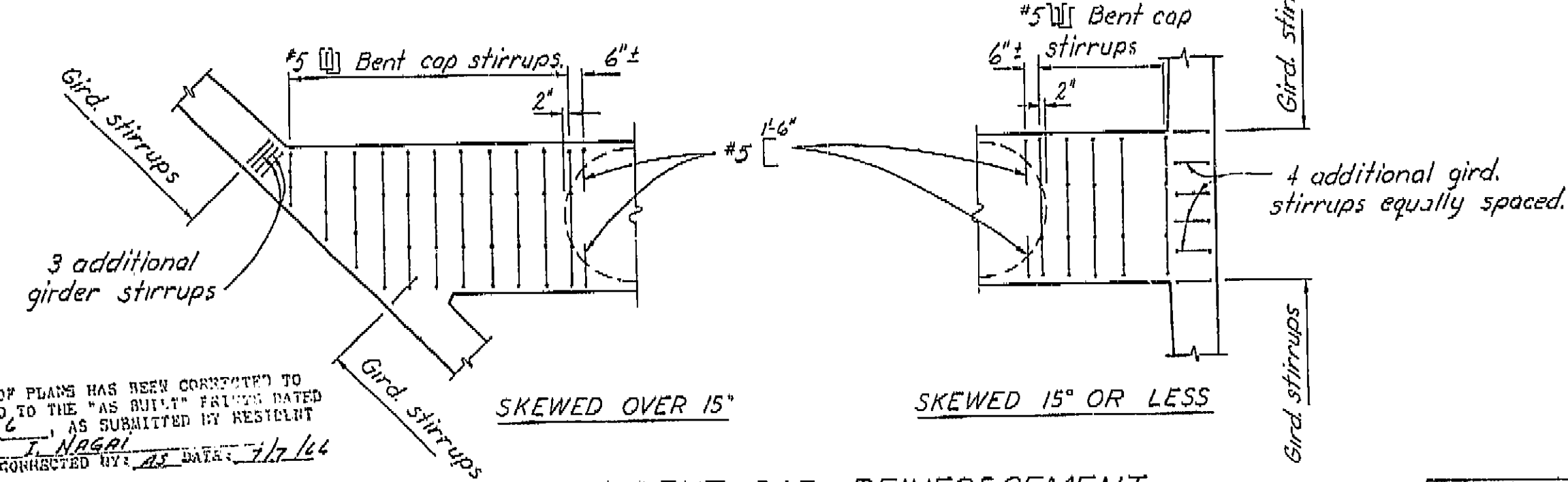
CAP SKEWED OVER 15°



BENT 18



BENTS 10, 11, 13, 14 & 15



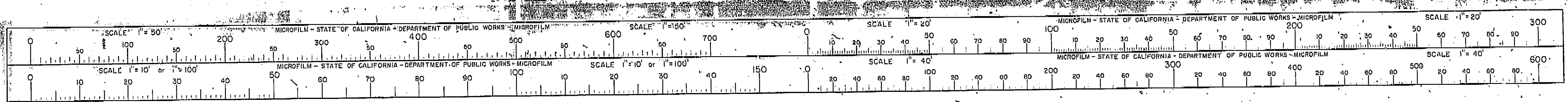
END OF BENT CAP REINFORCEMENT

AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

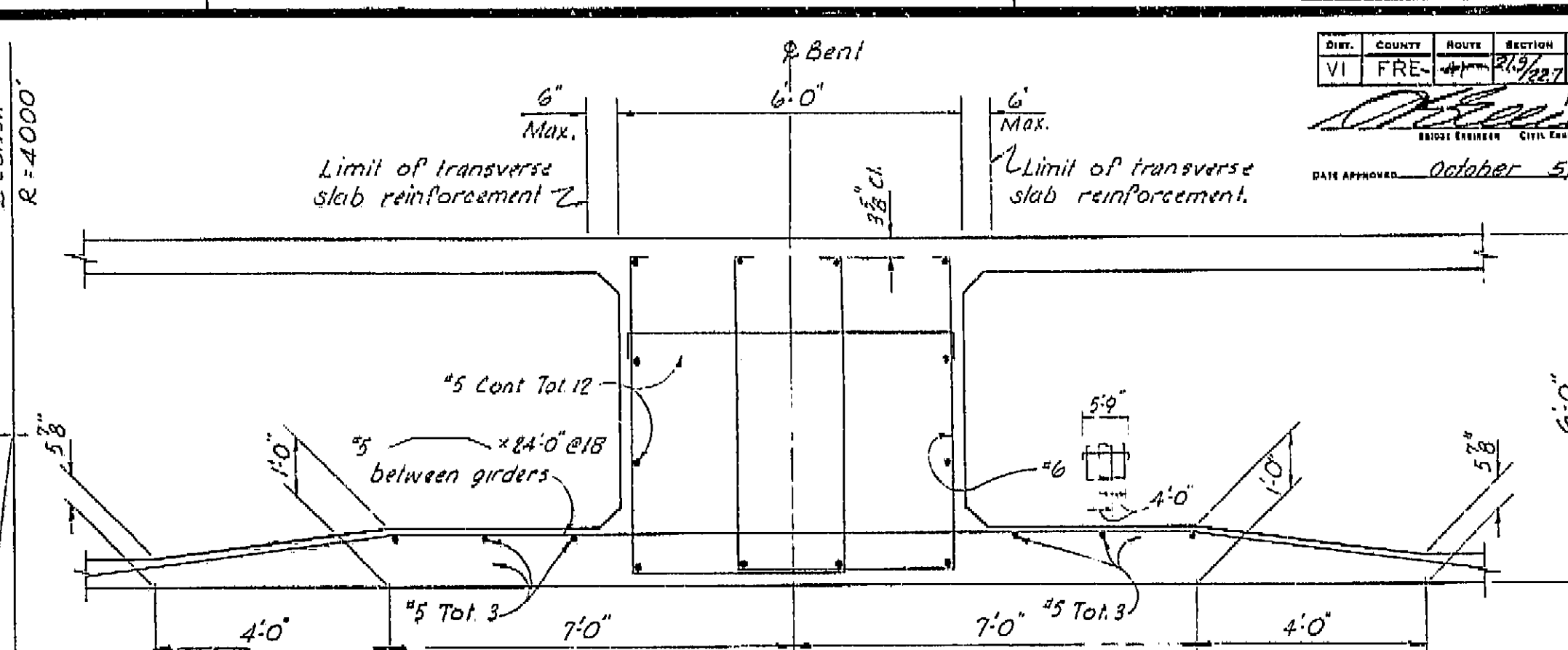
NOTE: All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from E. Col. for top reinforcement or E. Span for bottom reinforcement. Reinforcement symmetrical about E. of center col. for 3 col. Bents and E. span for 2 col. Bents.

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor R. B. Black	DESIGN R. B. Black CSU RJ LDR	SOUTH FRESNO VIADUCT	
DETAILS H. J. UTANI V. A. T. 1-64	QUANTITIES R. B. Black 2-64	BENT CAP REINFORCEMENT (RT. BR.)	
EXCEPT AS NOTED SCALE 3/16" = 1'-0"		BRIDGE 42-226 R/L	DRAWING 4-2226-60
PRELIMINARY DRAWING NO. P. 117		REVISION DATES	

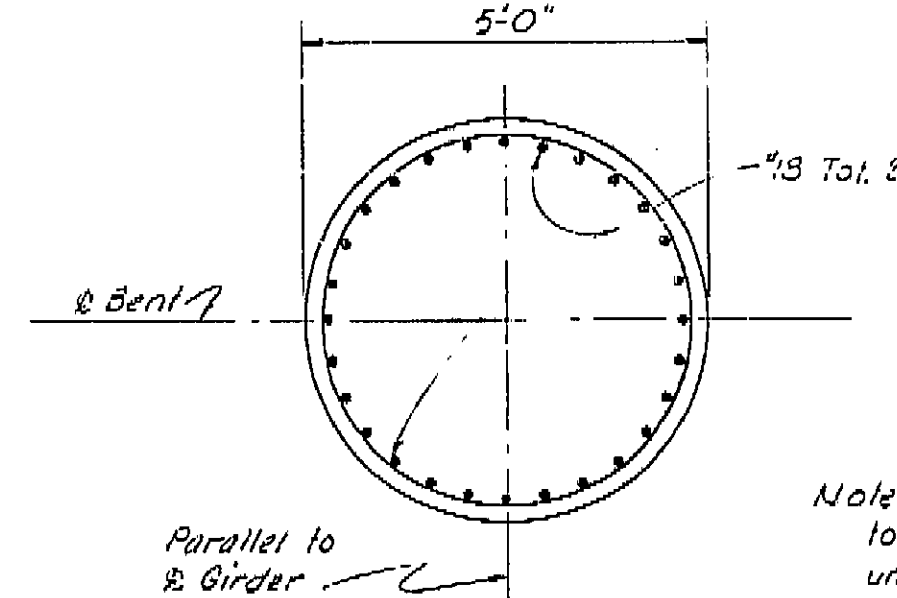
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE [Signature] TITLE [Title]







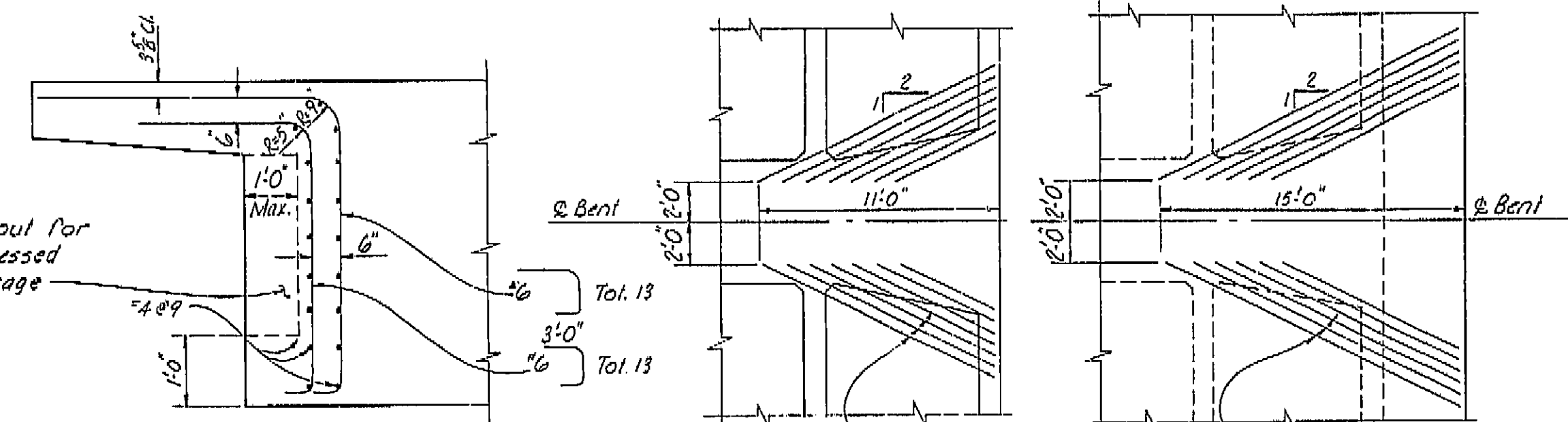
5'-0"



SECTION B-B  
1" = 1'-0"

Note: Column bars must be oriented to permit placing of prestressing units and longitudinal reinforcement in cap.

THIS SET OF PLANS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4/29/66, AS SUBMITTED BY RESIDENT  
ENGINEER J. NAGRI  
TRACINGS CORRECTED BY: AS DATE: 7/7/66



SECTION C-C

BOTTOM SLAB

TOP SLAB

CAP END DETAILS  
*No Scale*

No Scale

SHEET	OF
50	87

PLAN

$\frac{1'-0''}{4}$

Prestressing force to have upward slope @ face of col.

Centroid of prestressing force to follow straight line path to follow straight line path to 1'-0" inside face of col.

Face of Col.

Prestressing units to clear top of deck by 7" min.

3'-0"

#6 slirrup spacing 2'-0" @ 9 Max.

2" 2" 2" @ 9 Max.

Column Type 6

PRESTRESSING NOTES

Working Force (The force remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occurred) is as follows:

for  $x = 10''$   $P_f = 5350$  kips  
 for  $x = 12''$   $P_f = 5600$  kips  
 for  $x = 14''$   $P_f = 5900$  kips

The loss in stress in the post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 25,000 p.s.i.

In addition to the loss noted above, provision shall be made for losses due to friction, anchorage take-up, and any other losses peculiar to the system of

PRESTRESSING NOTES

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for  $x = 14"$   $P_f = 5900$  kips

The loss in stress in the post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 25,000 p.s.i.

In addition to the loss noted above, provision shall be made for losses due to friction, anchorage takeup, and any other losses peculiar to the system of prestressing used.

*Prestressing Steel: See Special Provisions*

Clearances for Post-Tensioned units:

1. Horizontal between units =  $2\frac{1}{2}$ " min.
2. Units may be bundled vertically in groups of 3 max.
3. Vertical clearance between bundled units = 3" min.

Concrete:  $f'_c$  @ time of stressing: 3700 psi. Limits of 3700 psi concrete extend 11'-0" each side of @ Bent

ELEVATION  
4'10"

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT		<b>15</b>
<b>DESIGN SECTION</b>		
Section Supervisor	<i>R.C. Blake</i>	
DESIGN	By <i>Conrad P. H. Blat</i>	
	Checked <i>BL FRASER</i>	1-64
DETAILS	By <i>Y. M. Adams</i>	1-68
	Checked <i>BL FRASER</i>	1-64
QUANTITIES	By <i>D. M. Mason</i>	2-64
	Checked <i>R. C. Blake</i>	2-64

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT 17 (LT. BR.)

SCALE AS NOTED	BRIDGE 42-226 R/L	FILE	DRAWING 42226-69
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PRELIMINARY DRAWING No.	REVISION DATES
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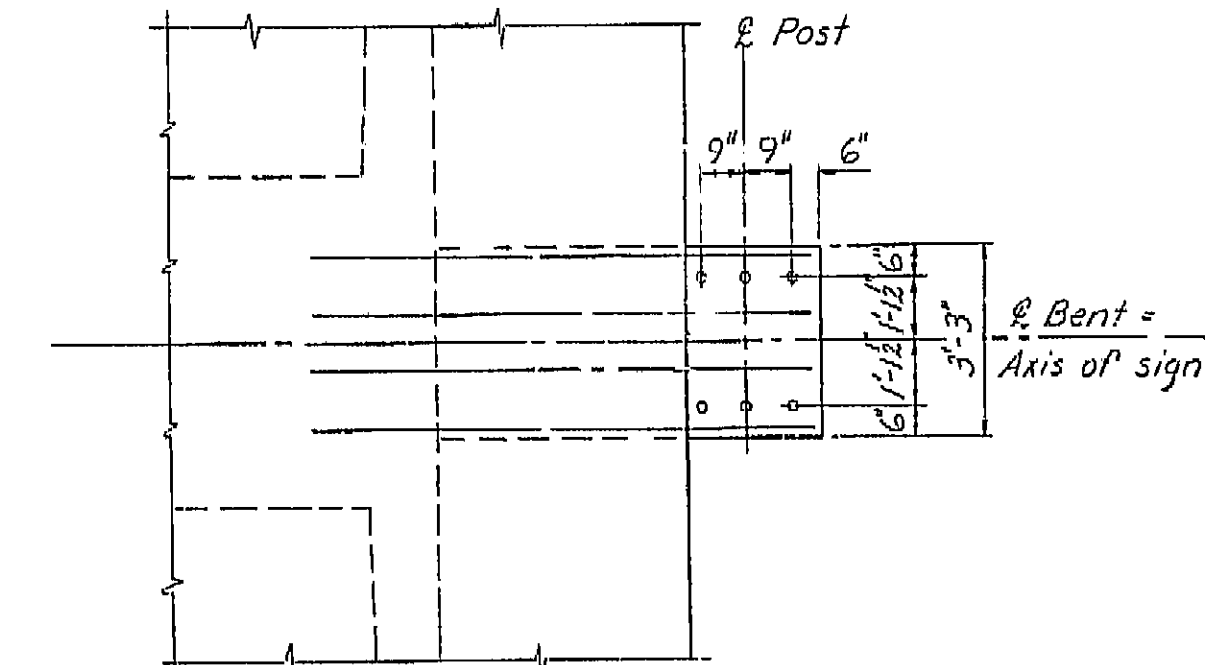
Disregard prints bearing earlier revision dates —

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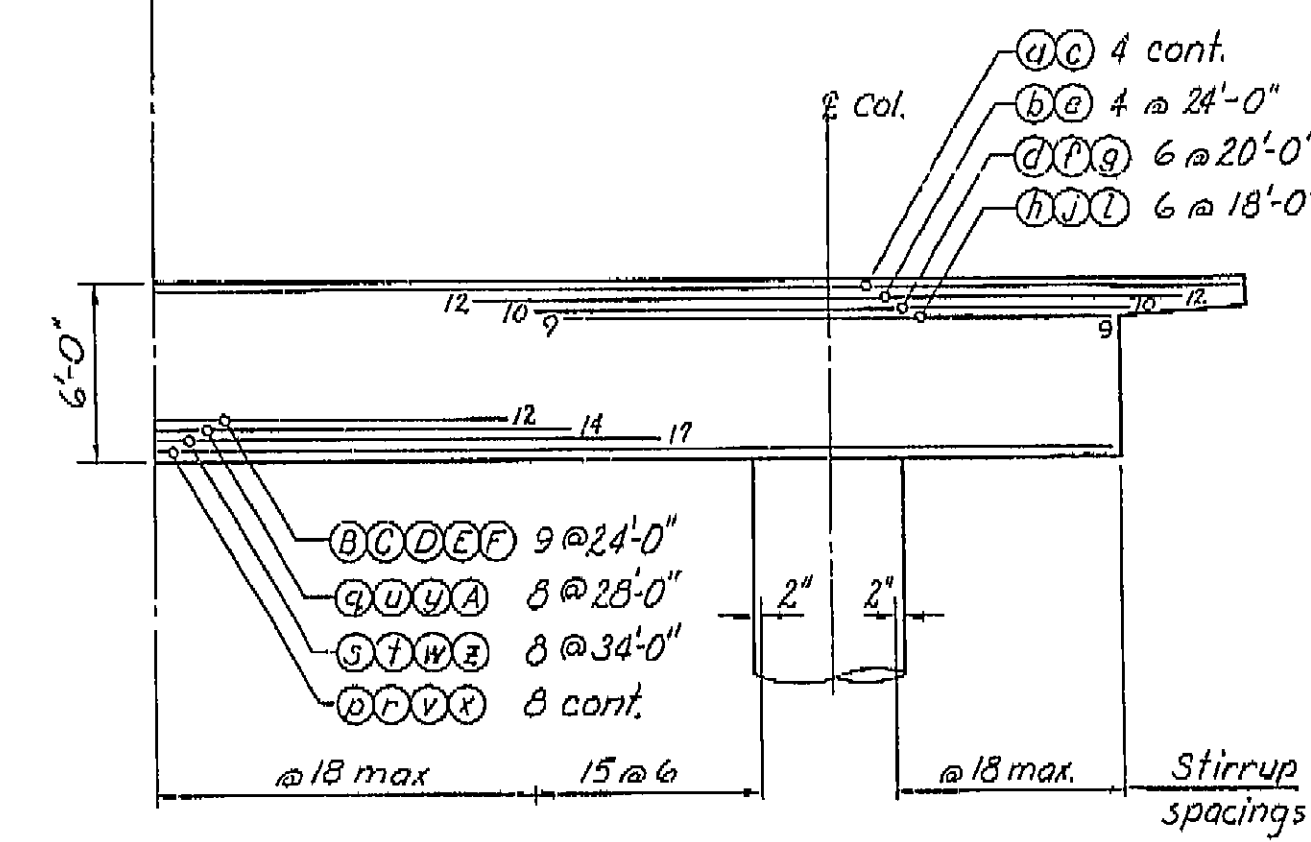
DATE 2-14-72 SIGNATURE James E. Court TITLE Sr. RMC



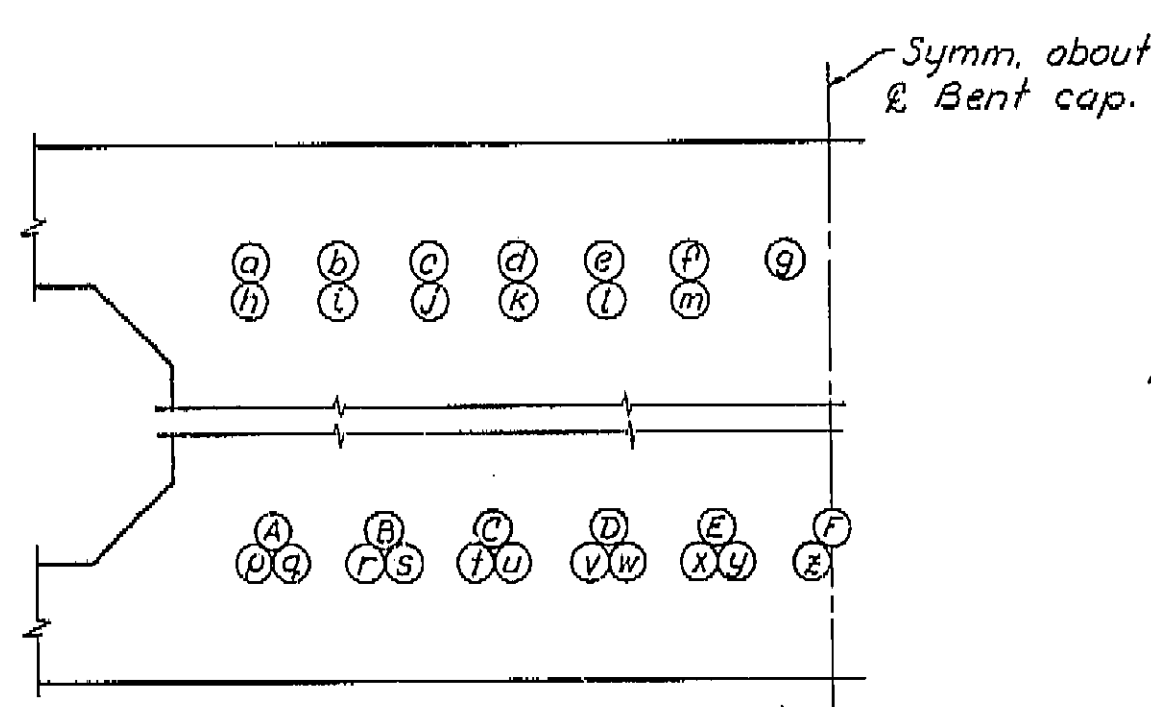




BENTS 15 & 16



BENT 18



BAR PLACING DIAGRAM

Symm. about  
E Bent cap.

ELEVATION

DETAIL "A"

THIS SET OF PLANS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PLANS DATED  
4/29/66 AS SUBMITTED BY RESIDENT  
ENGINEER J. VAGAN  
TRACINGS CORRECTED BY: AS DATE: 7/12/66

NOTE:

All reinforcement #11 unless noted otherwise.  
Numbers at ends of bars indicate distance in  
feet from L Col. for top reinforcement or  
L Span for bottom reinforcement.

See "BENT CAP REINF (RT BR)" sheet for Cap Section and End of Bent Cap Reinforcement. Reinforcement symmetrical about E of center col. for 3 col. Bents and E span for 2 col. Bents. For Bent 17 details see Bent 17 Lt. Br. sheet.

SHEET	OF
49	87

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT		<b>15</b>
<b>DESIGN SECTION</b>		
Section Supervisor	<i>R.C. Blake</i>	
DESIGN	<i>W. J. R. M. 654 RU CDR</i>	
	Elastic <i>spring</i>	
DETAILS	<i>By M. J. R. M. 1. A. B. 1-64</i>	
	<i>Check: W. J. R. M. 654 RU C.</i>	
QUANTITIES	<i>By R. B. Black</i>	
	<i>Checked: 1/24/64 1/24/64</i>	

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

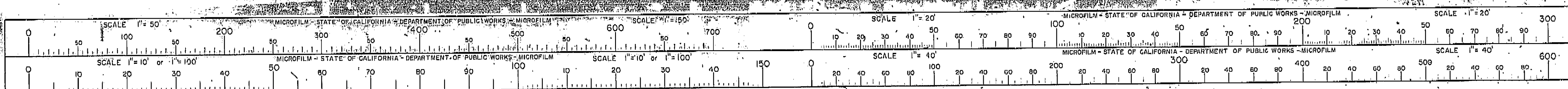
REINFORCED CONCRETE REINFORCEMENT (IT BR)

EXCEPT AS NOTED	BRIDGE 42-226 <sup>R/L</sup>	FILE	DRAWING 42226-6
SCALE 3/16" = 1'-0"			

Disregard prints bearing earlier revision dates

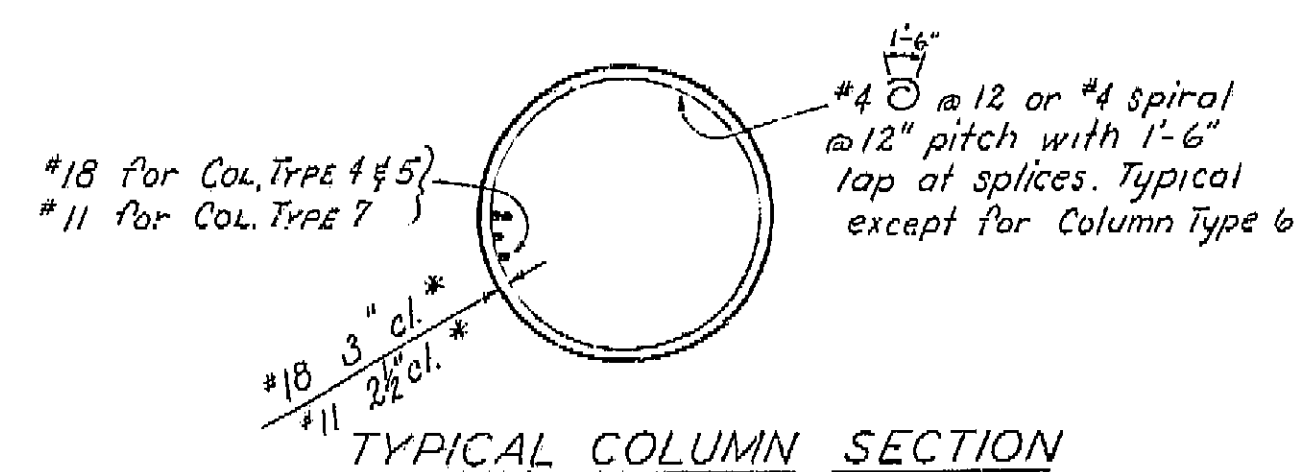
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. (unc) TITLE Sgt (RMC)

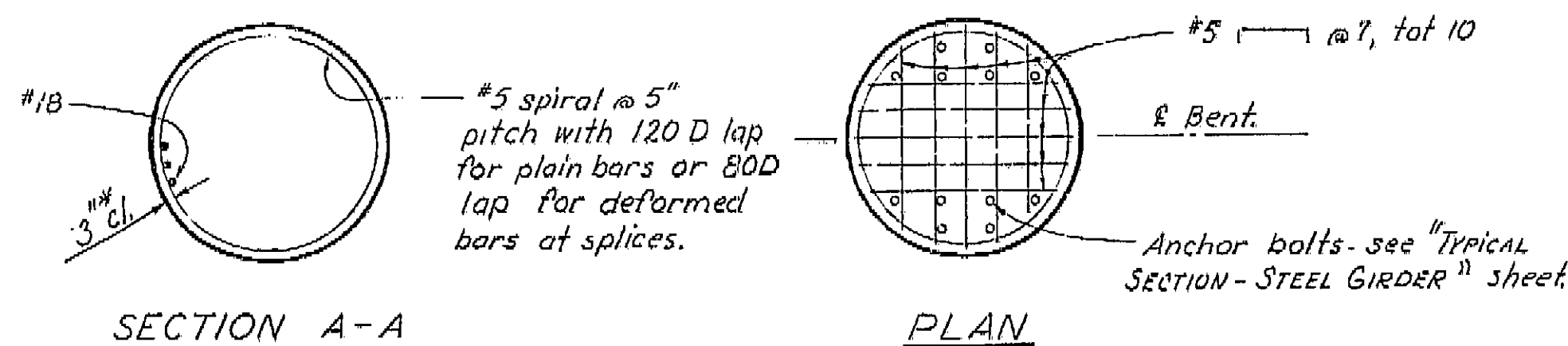




DATE APPROVED October 5, 1954

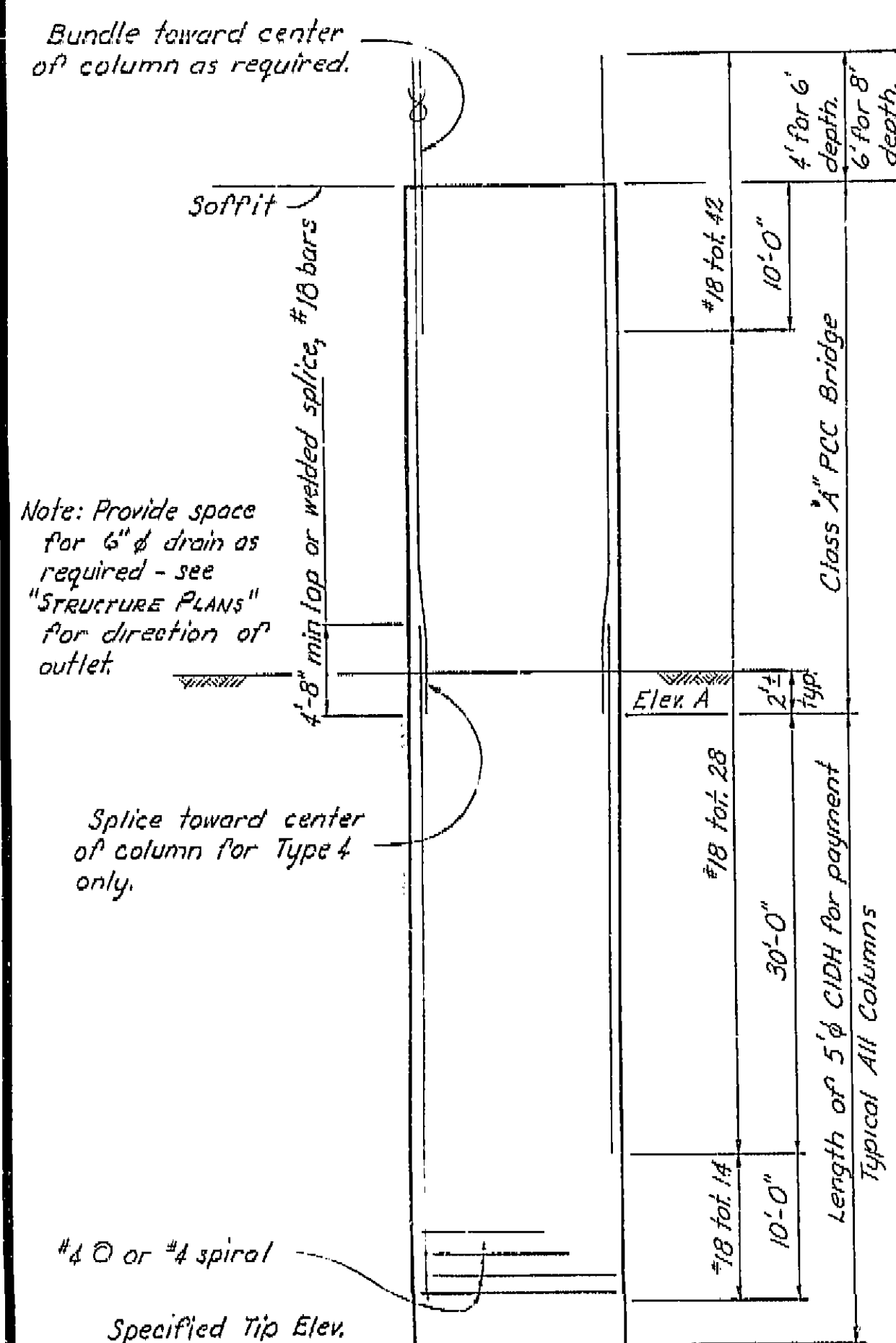


11 TYPICAL COLUMN SECTION

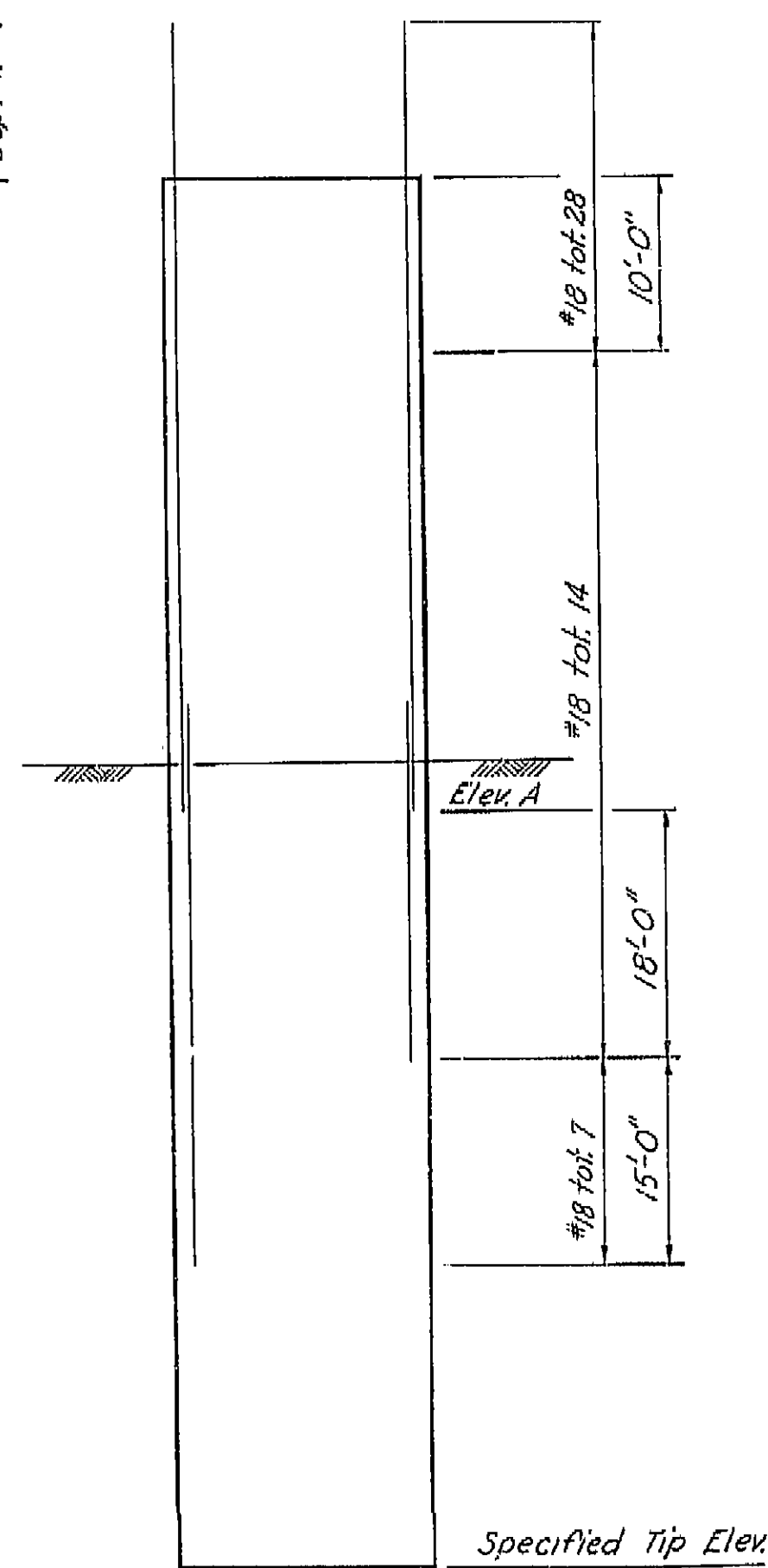


SECTION A-A

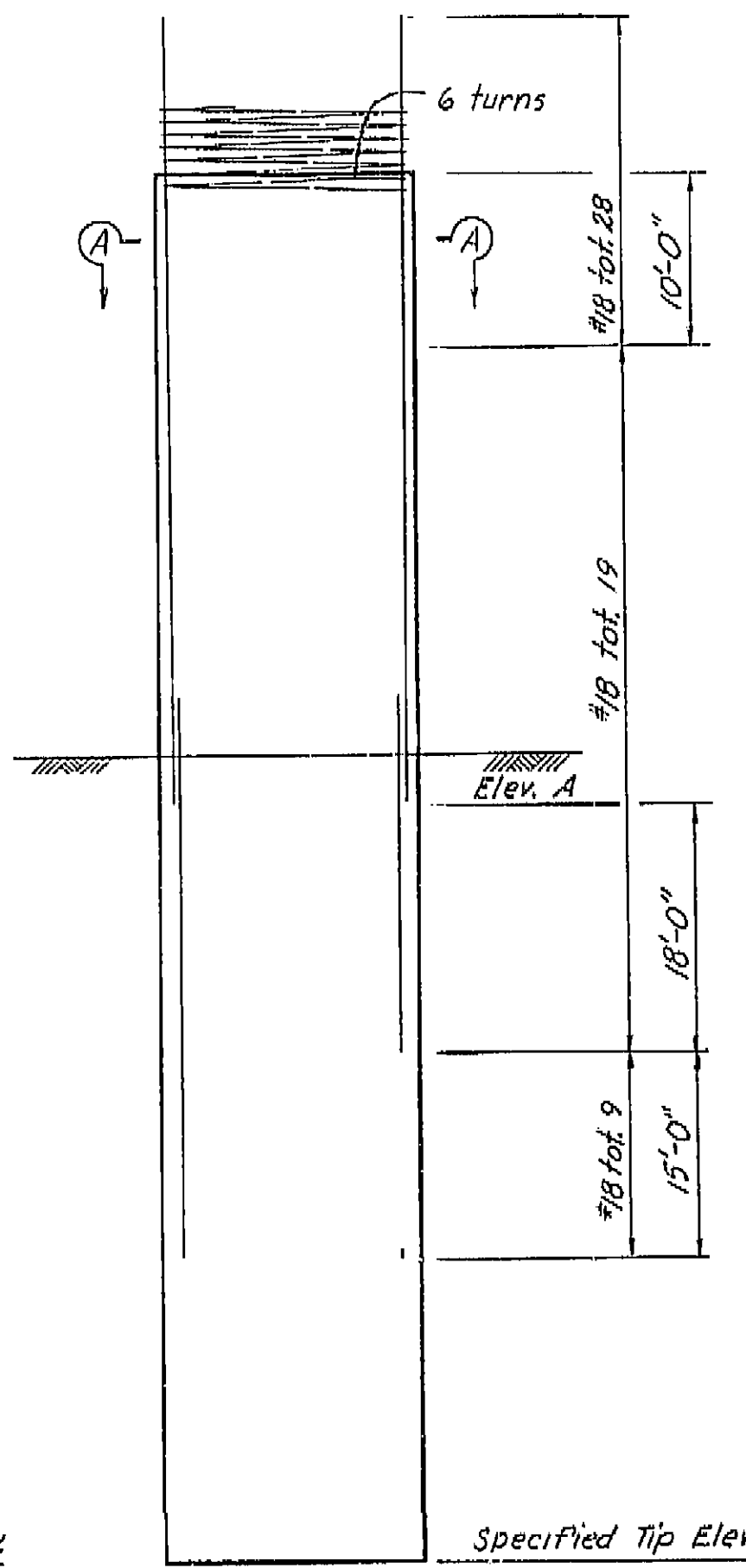
Note: see "BENT 17 LT. OR." sheet.



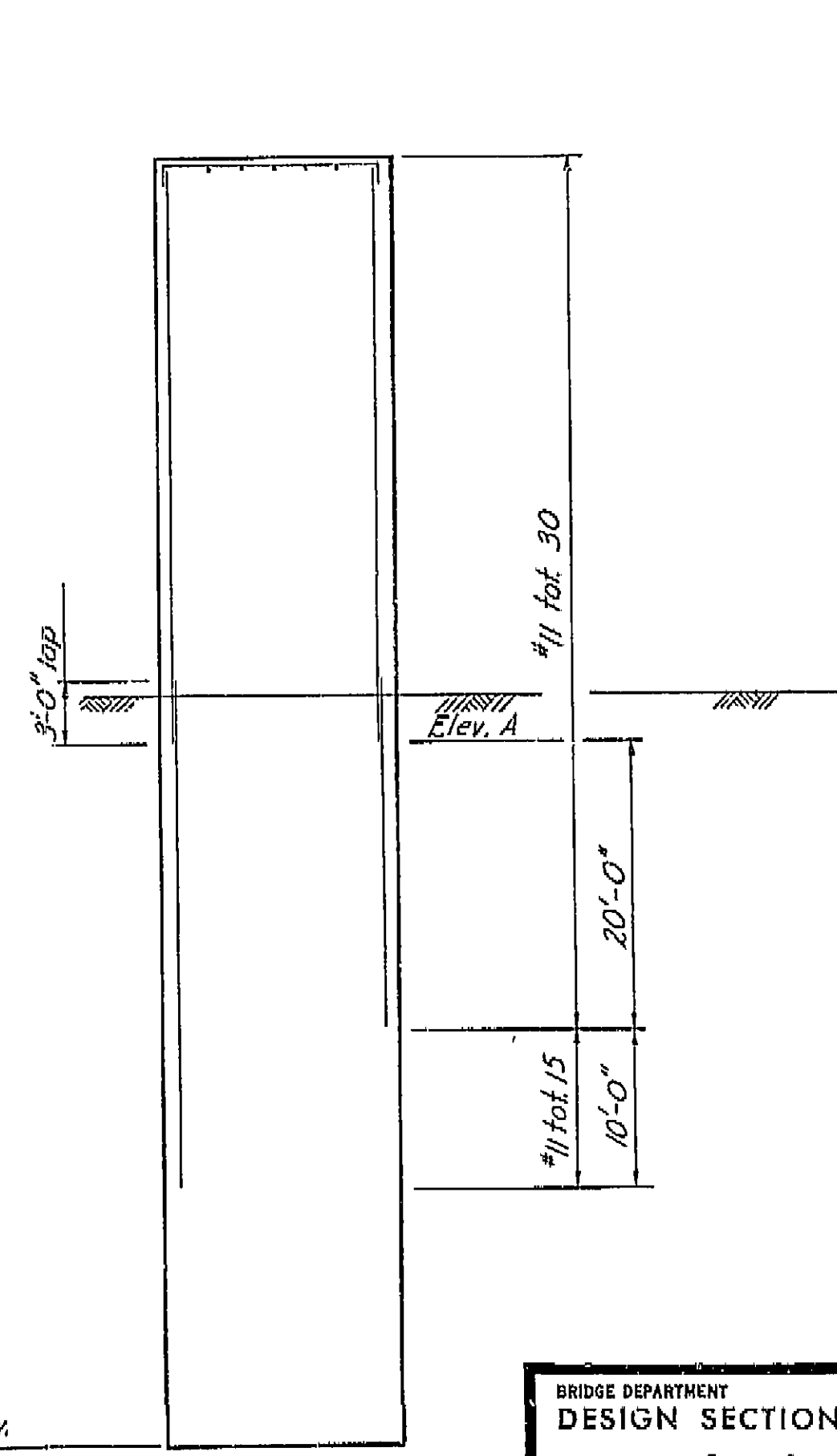
COLUMN TYPE 4



COLUMN TYPE 5



COLUMN TYPE 6



COLUMN TYPE 7

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

THIS SET OF PLAINS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4/29/66, AS SUBMITTED BY RESIDENT  
ENGINEER E. Nagai.  
TRACINGS CORRECTED BY PS DATE: 7/7/66

SHEET	C
19	8

BRIDGE DEPARTMENT		<b>15</b>
<b>DESIGN SECTION</b>		
Section Supervisor	<i>R.C. Blake</i>	
<b>DESIGN</b>	By <i>C.S.M. PU. Dkt.</i>	<i>LDR</i>
	Checked <i>same</i>	
<b>DETAILS</b>	By <i>MIZUTANI</i>	<i>1-C</i>
	Checked	
<b>QUANTITIES</b>	By <i>DPH</i>	<i>1-64</i>
	Checked <i>DPH</i>	<i>1-64</i>

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT COLUMNS 2

SCALE NONE	BRIDGE 42-226 <sup>R</sup>	FILE	DRAWING 42226-7
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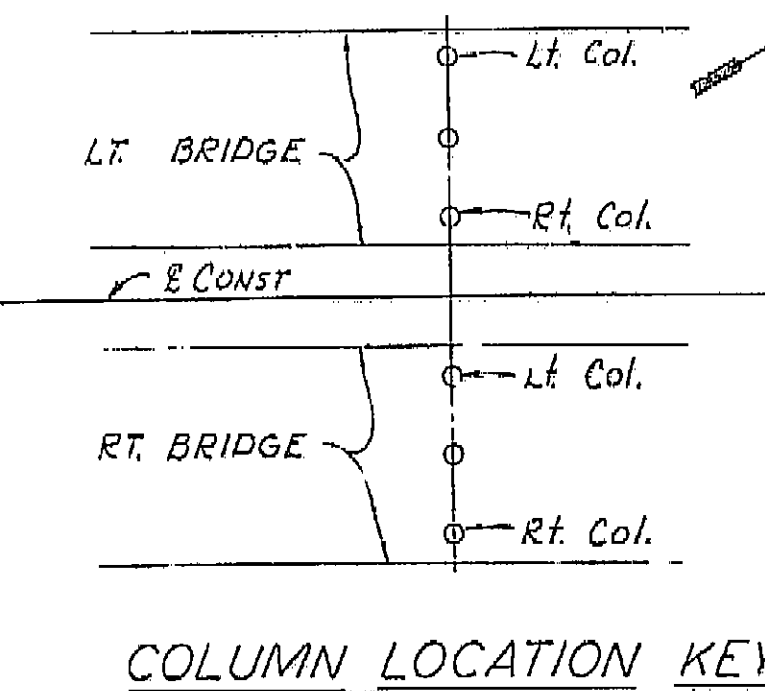
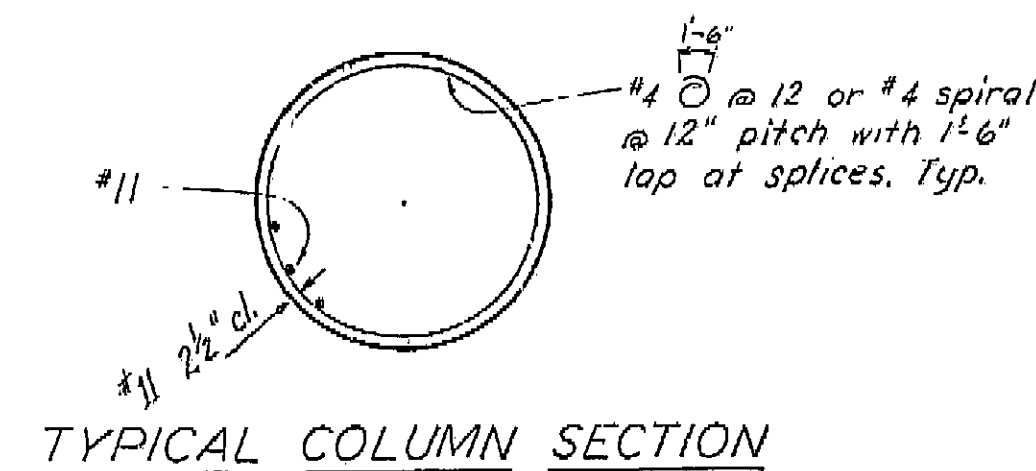
Preliminary Drawing No.	Revision Dates					
P-104 / 121 / 57						

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DATE 2-14-82 SIGNATURE James E. [Signature] TITLE Sgt. PMIC







BENTS	COLUMN TYPE	ELEV. "A" (LT. TO RT.)	SPECIFIED TIP ELEV.	"AS BUILT" TIP ELEV. (LT. TO RT.)
3	5	280'	245'	244.2 245.1
4	5	280'	240'	238.2 239.5
5	3	280'	235'	232.2 230.2
6	2	277'	230'	230.2 229.2
7	5	276'	250'	240.2 238.2
8	2	290', 288'	245'	244.2 243.2
9	3	280'	245'	243.2 241.2
10	5	282'	240'	235.2 238.2
11	4	280-282'	236'	234.2 234.1
12	7	284'	245'	243.2 244.2
13	2	284'	227'	226.2 226.2
14	2	283'	225'	209.2 226.2
15	2	288', 281'	235'	232.2 234.2
16	5	290', 285'	230'	228.2 228.2
17	6	288', 286'	215'	213.2 215.2
18	5	288'	240'	239.2 234.2
3	1	280'	255'	253.2 254.2 257.2
4	1	280'	250'	248.2 250.2 251.2
5	1	277'	247'	243.2 245.2 246.2
6	2	274', 274', 273'	242'	241.2 239.2 240.2
7	5	275'	245'	241.2 239.2 241.2
8	2	285', 284'	245'	244.2 244.2
9	3	280'	243'	241.2 241.2
10	3	282'	230'	228.2 227.2
11	4	280-282', 282'	236'	235.2 234.2
12	7	284'	253'	254.2 252.2
13	2	284'	230'	229.2 220.2
14	2	283'	233'	234.2 229.2
15	2	281', 282'	253'	246.2 242.2
16	5	281'	245'	243.2 244.2
17	1	286'	250'	247.2 249.2
18	1	286'	250'	250.2 249.2 249.1

NOTE: Provide space for 6" drain as required - see "STRUCTURE PLANS" for direction of outlet.

**AS BUILT PLANS**  
Contract No. 14-D-4234  
Date Completed  
Document No. 60001072

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" CONDITIONS. AS SUBMITTED BY BUREAU OF HIGHWAYS, SACRAMENTO, CALIF. TRACINGS CORRECTED BY: *[Signature]* DATE: 7/1/66

SHEET 18 OF 87

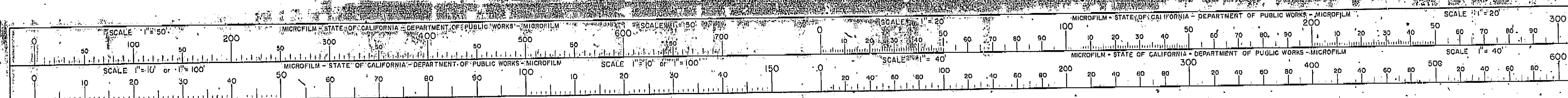
BRIDGE DEPARTMENT <b>DESIGN SECTION 15</b> Section Supervisor: <i>[Signature]</i> DESIGN: <i>[Signature]</i> LDR CHECKED: SQ. # HIZUTANI 1-64 CHECKED: QUANTITIES: <i>[Signature]</i> 1-64 CHECKED: <i>[Signature]</i> 1-64		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS  <b>SOUTH FRESNO VIADUCT</b>  <b>BENT COLUMNS 1</b>  SCALE: NONE BRIDGE: 42-226R FILE: DRAWING: 42226-74	
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Disregard prints bearing earlier revision dates

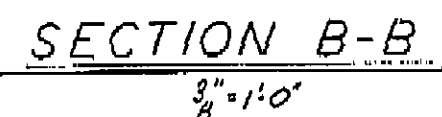
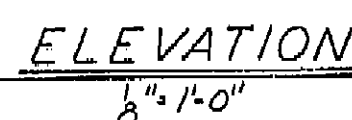
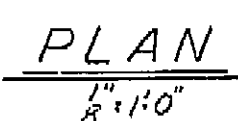
PRELIMINARY DRAWING NO. *[Signature]*

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

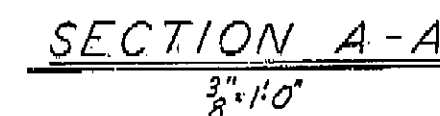
DATE 2-14-72 SIGNATURE *[Signature]* TITLE *[Signature]*







DETAIL J-6  
No Scale



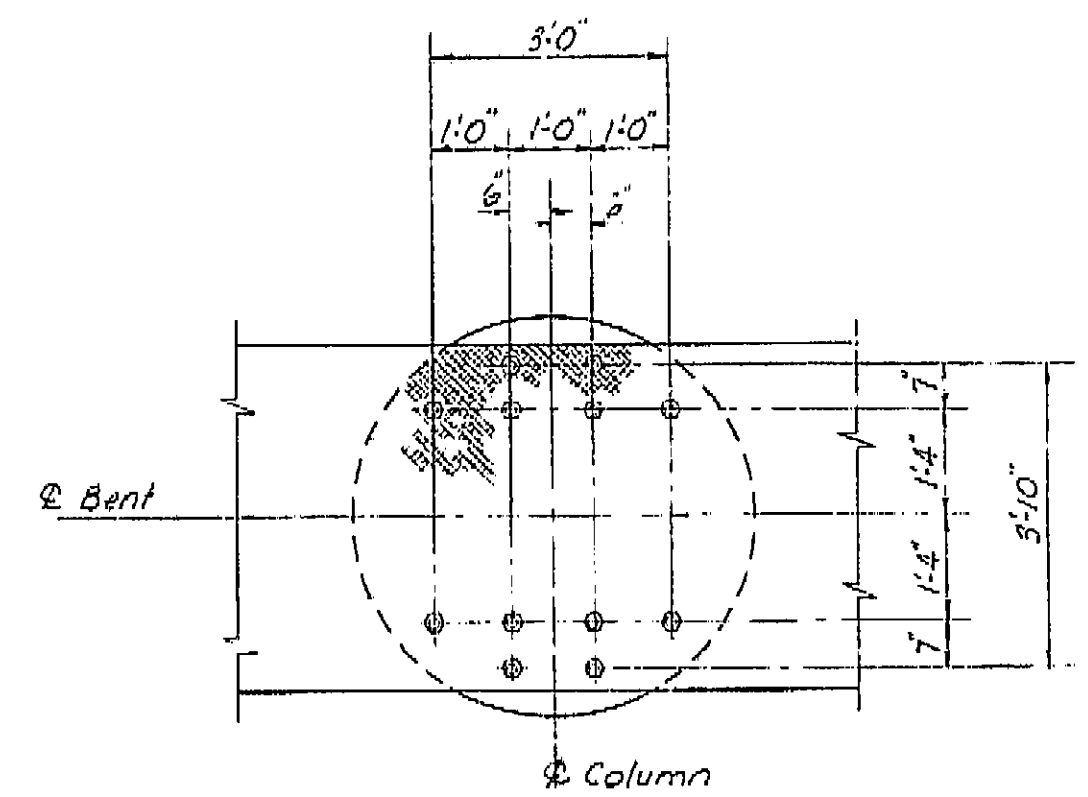
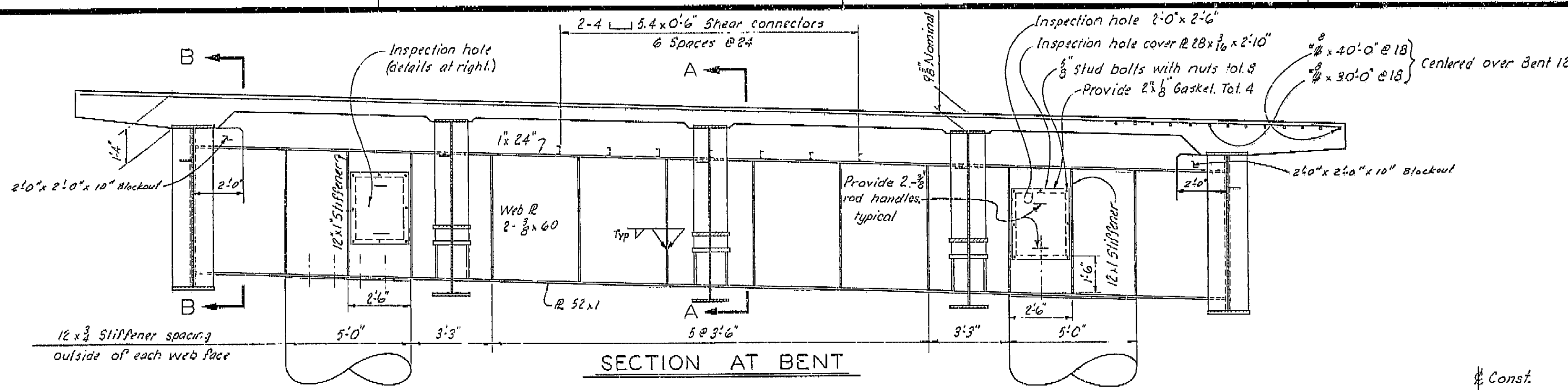
SHEET	OF
17	27

Disregard prints bearing earlier revision dates

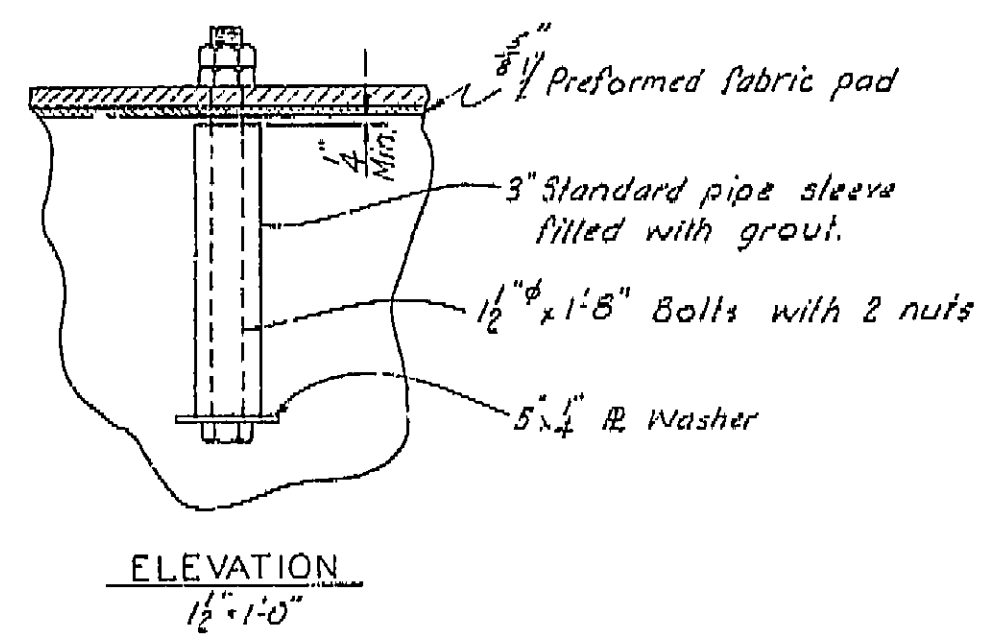
DATE 2-14-77 SIGNATURE *[Signature]* TITLE S12 RMC



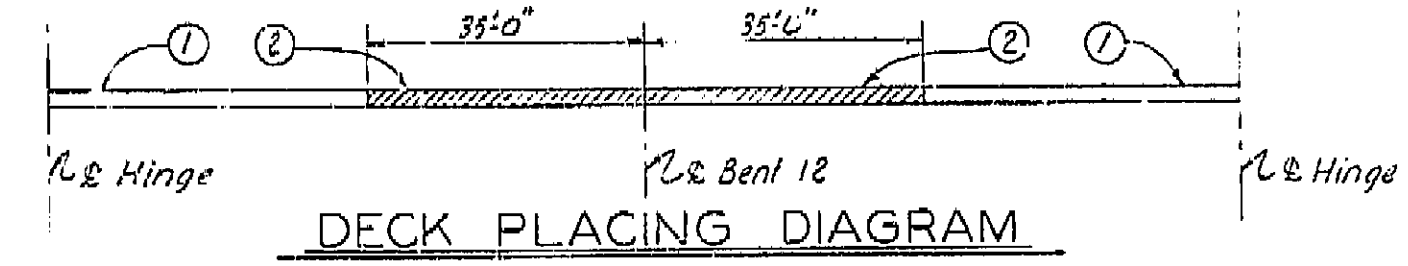
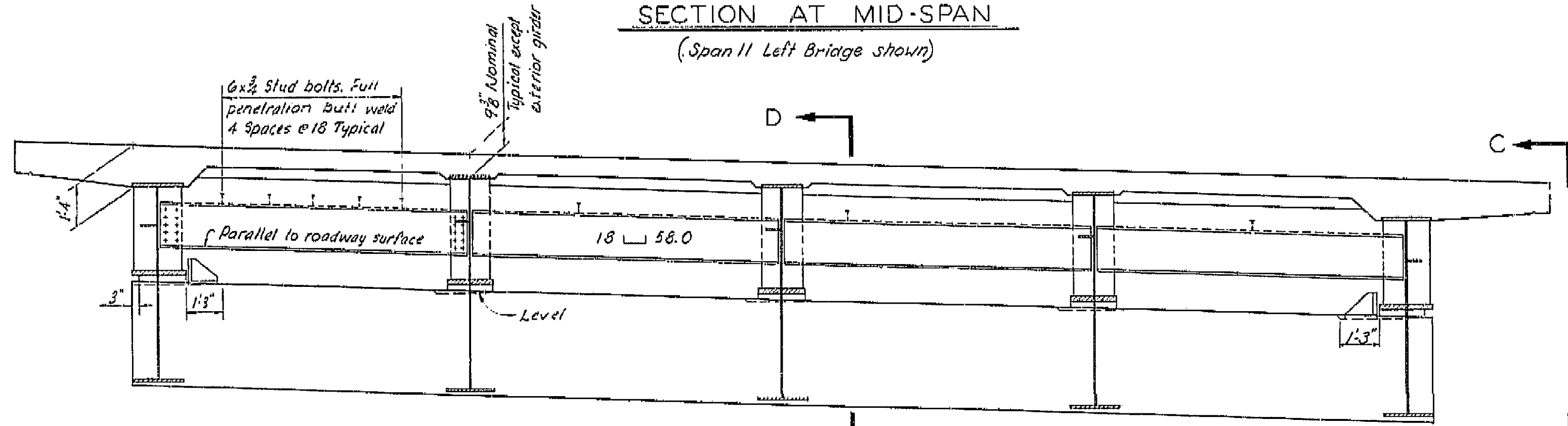
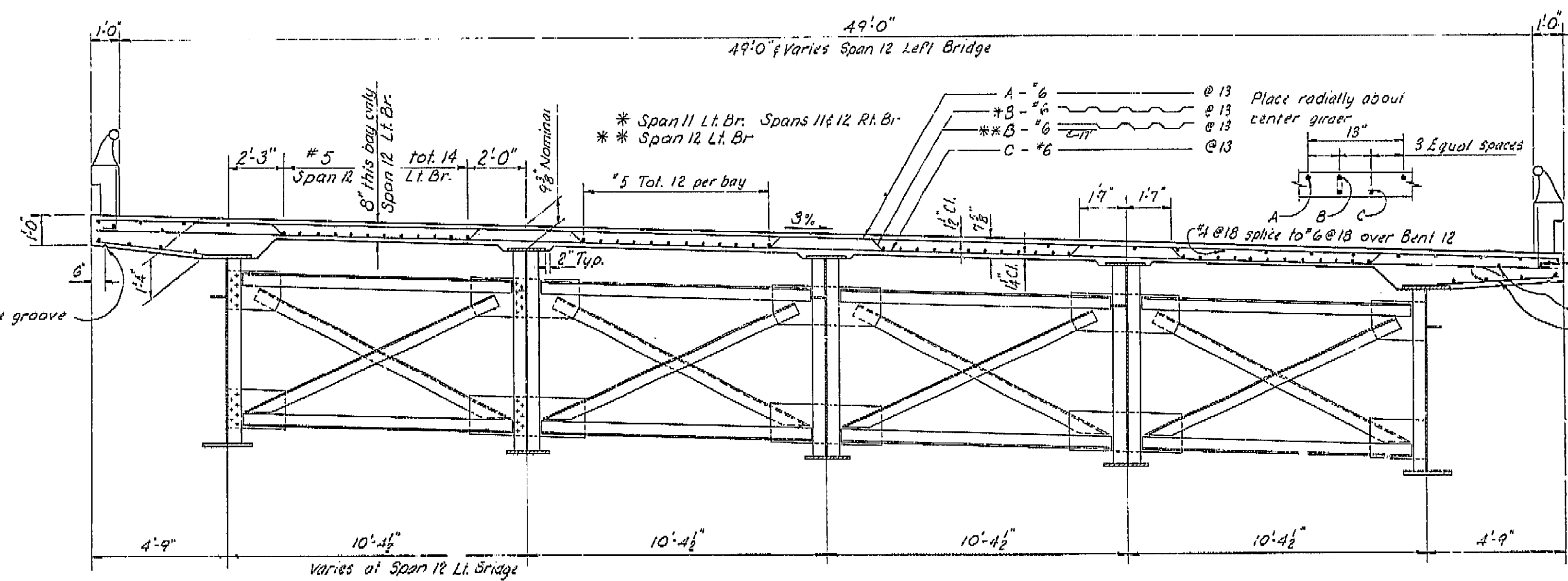




TOP OF CONCRETE COLUMN ELEVS.		
	2 Lt. Column	2 Rt. Column
Lt. Bridge	316.05	315.18
Rt. Bridge	313.70	312.83



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/23/66 AS SUBMITTED BY RESIDENT ENGINEER J. N. N. DATE: 7/7/66 TRACINGS CORRECTED BY: J. N. N.



Numbers (1) and (2) indicate sequence of placing deck slab concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.  
For any deviation from the above the contractor shall submit a diagram to the Engineer for approval.

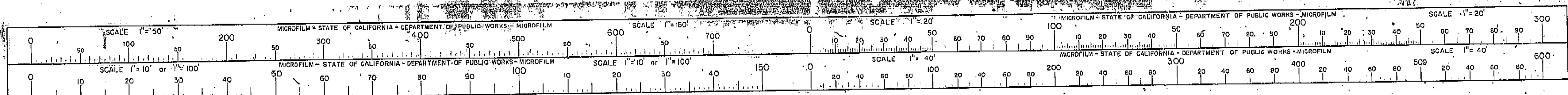
**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

Note: For Sections 4-A, 3-B, C-C and D-D see "Steel Girder Details I" Left Bridge shown Right Bridge similar.  
Typical deck reinforcement shown in "Section at Mid-Span".

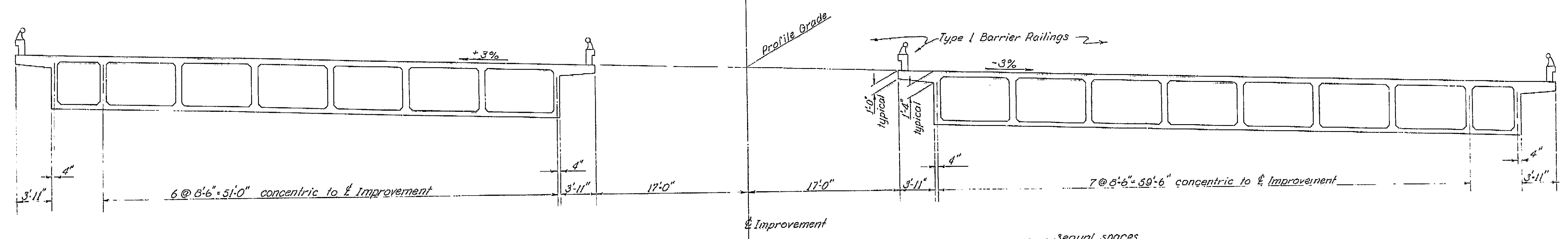
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section	CC Block
DESIGN	By J. N. N.
DETAILS	By J. N. N.
QUANTITIES	By J. N. N.

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
TYPICAL SECTIONS - STEEL GIRDERS			
EXCEPT AS NOTED	BRIDGE 42-226 R/L	FILE	DRAWING 42226-64

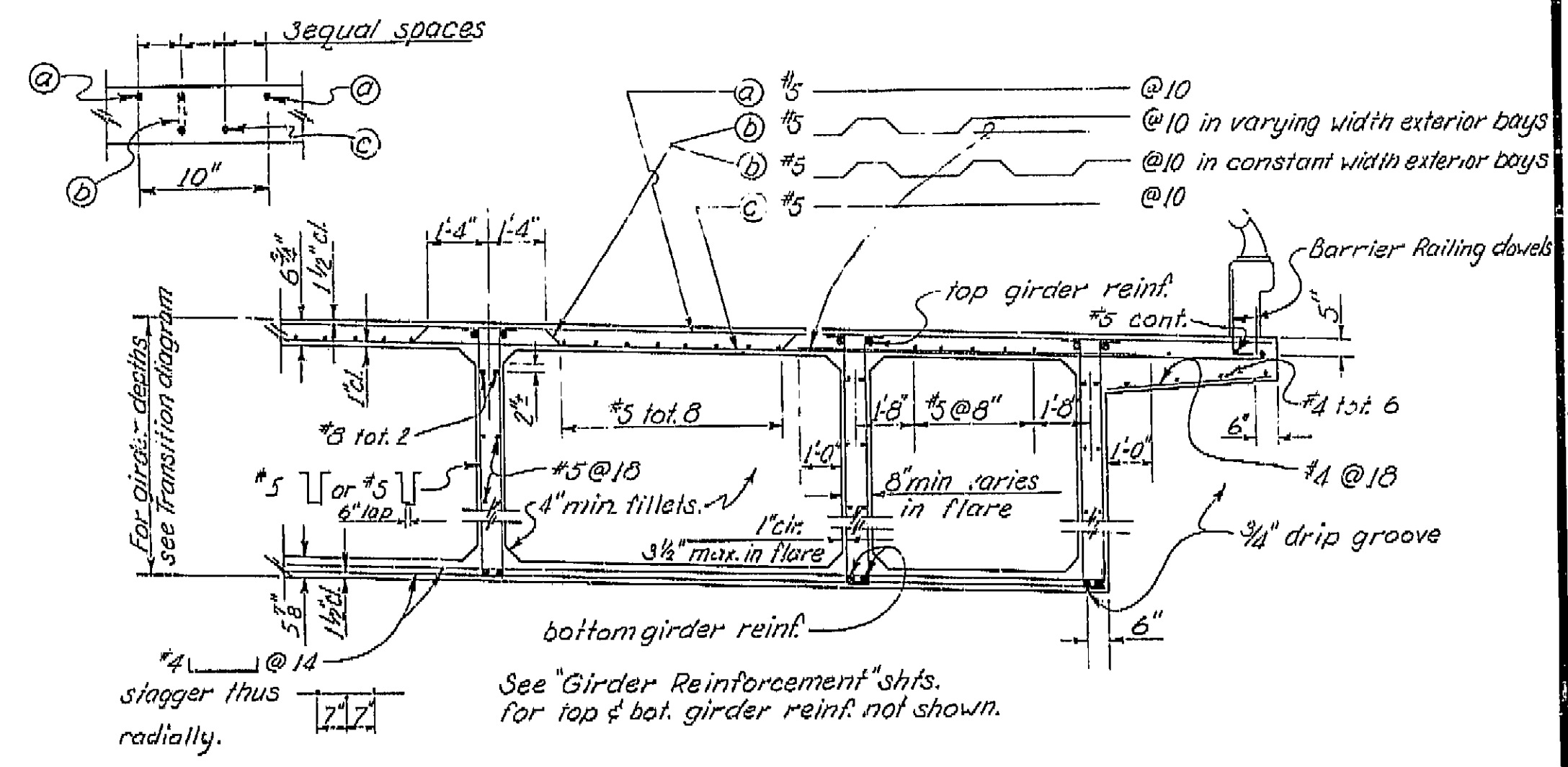
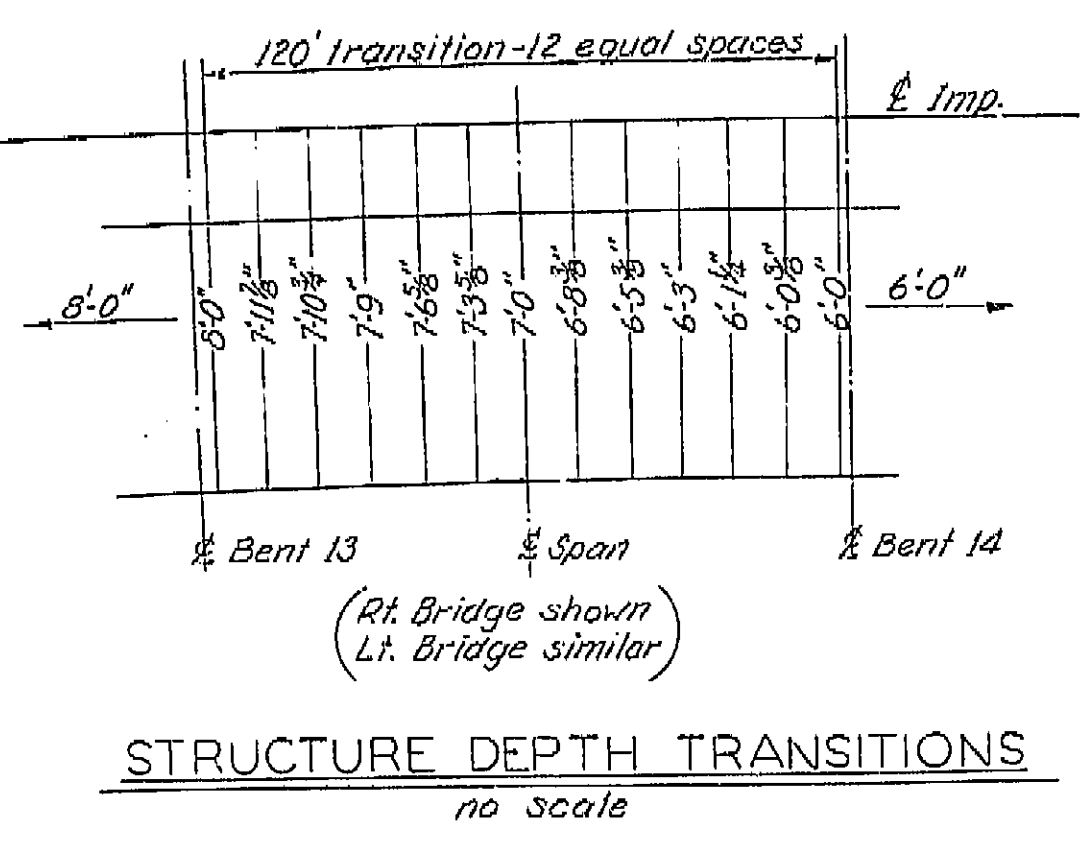
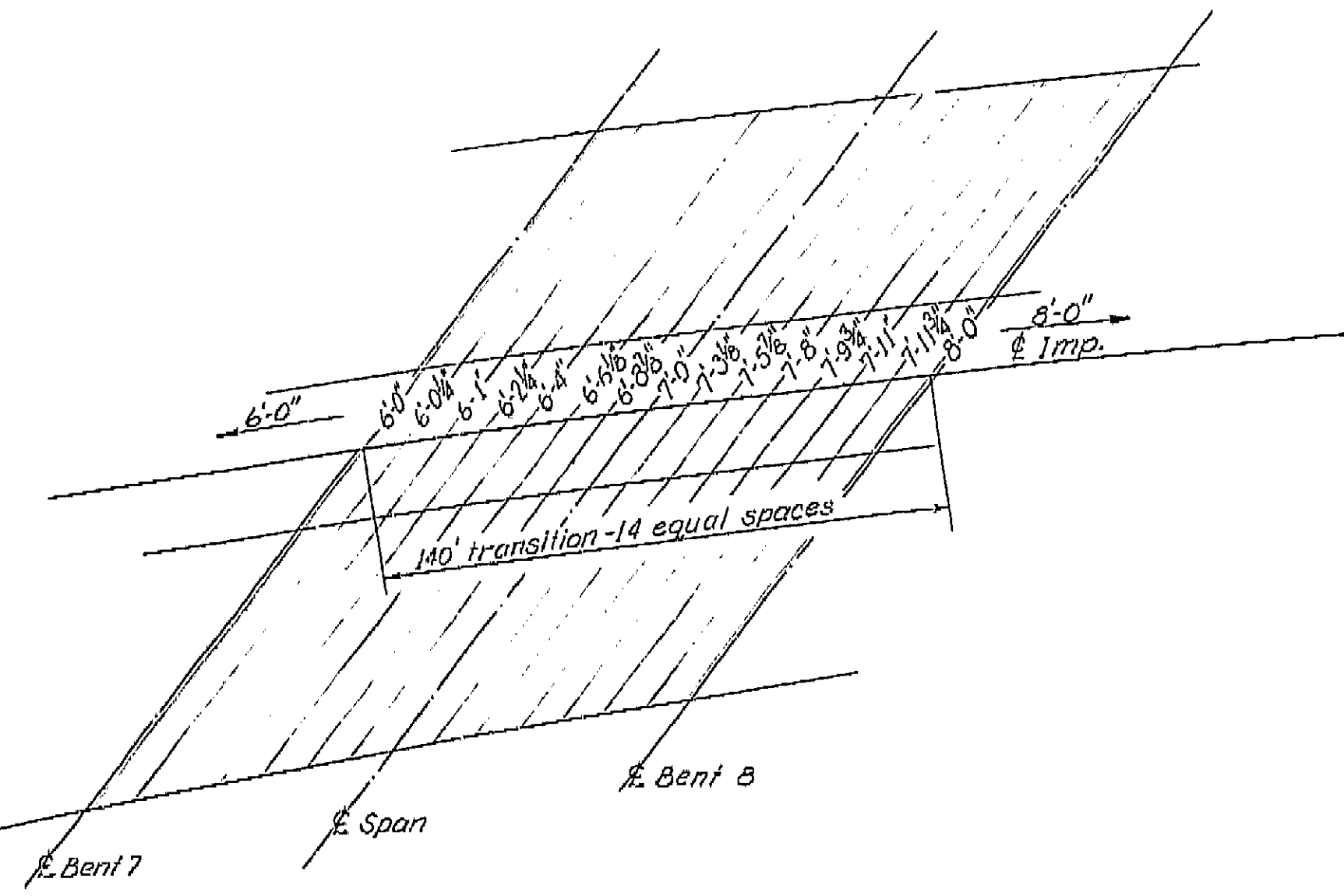
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE J. N. N. TITLE S. E. R. N. O.







TYPICAL SECTION AT STA. 1178+00  
3/16" = 1'-0"



PART SECTION  
3/8" = 1'-0"

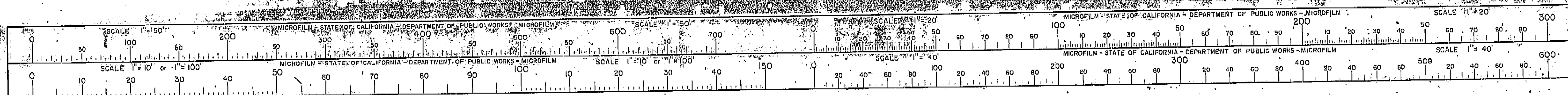
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI. TRACINGS CORRECTED BY: 2/3 DATE: 7/12/66

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

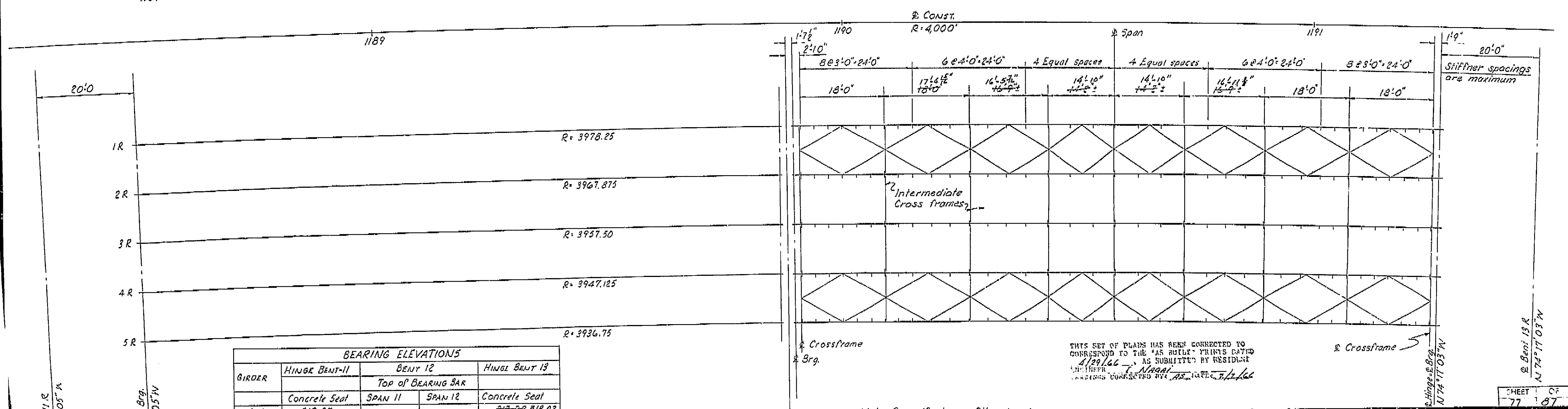
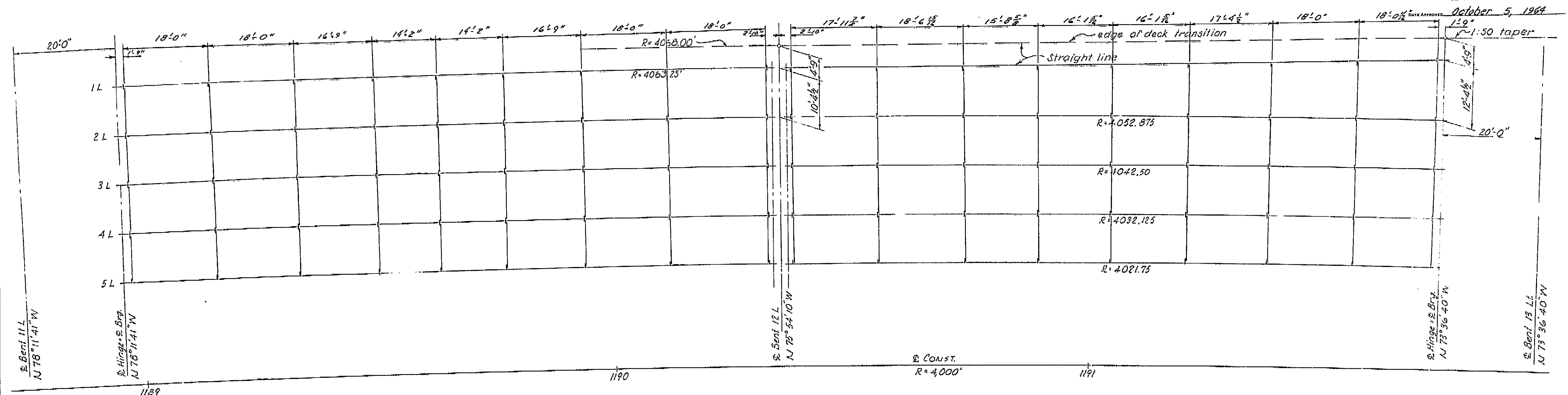
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R. C. Blahut
DESIGN	By Vernon G. Banks 10-63
DETAILS	By J. A. Bland 10-63
QUANTITIES	By various

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
TYPICAL SECTION-CONCRETE GIRDERS			
SCALE As noted	BRIDGE 42-226 R/L	FILE	DRAWING 42226-19
PRELIMINARY DRAWING No.	42226-19	REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE [Signature] TITLE Sr. R.M.C.



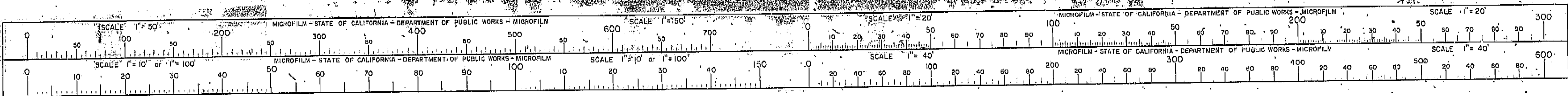




BRIDGE DEPARTMENT  
**DESIGN SECTION 15**  
 Section Supervisor: *R.C. Blake*  
 DESIGN: *W. BL. FRANK* 3-64  
 DETAILS: *W. BL. FRANK* 3-64  
 QUANTITIES: *W. BL. FRANK* 3-64

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS  
**SOUTH FRESNO VIADUCT**  
**STEEL GIRDER LAYOUT**  
 SCALE 1" = 10'-0"  
 BRIDGE 42-226 R/L FILE  
 DRAWING 42226-63

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE *John E. C...* TITLE *...*



AS BUILT PLANS  
 Contract No. 14-014234  
 Date Completed  
 Document No. 60001072

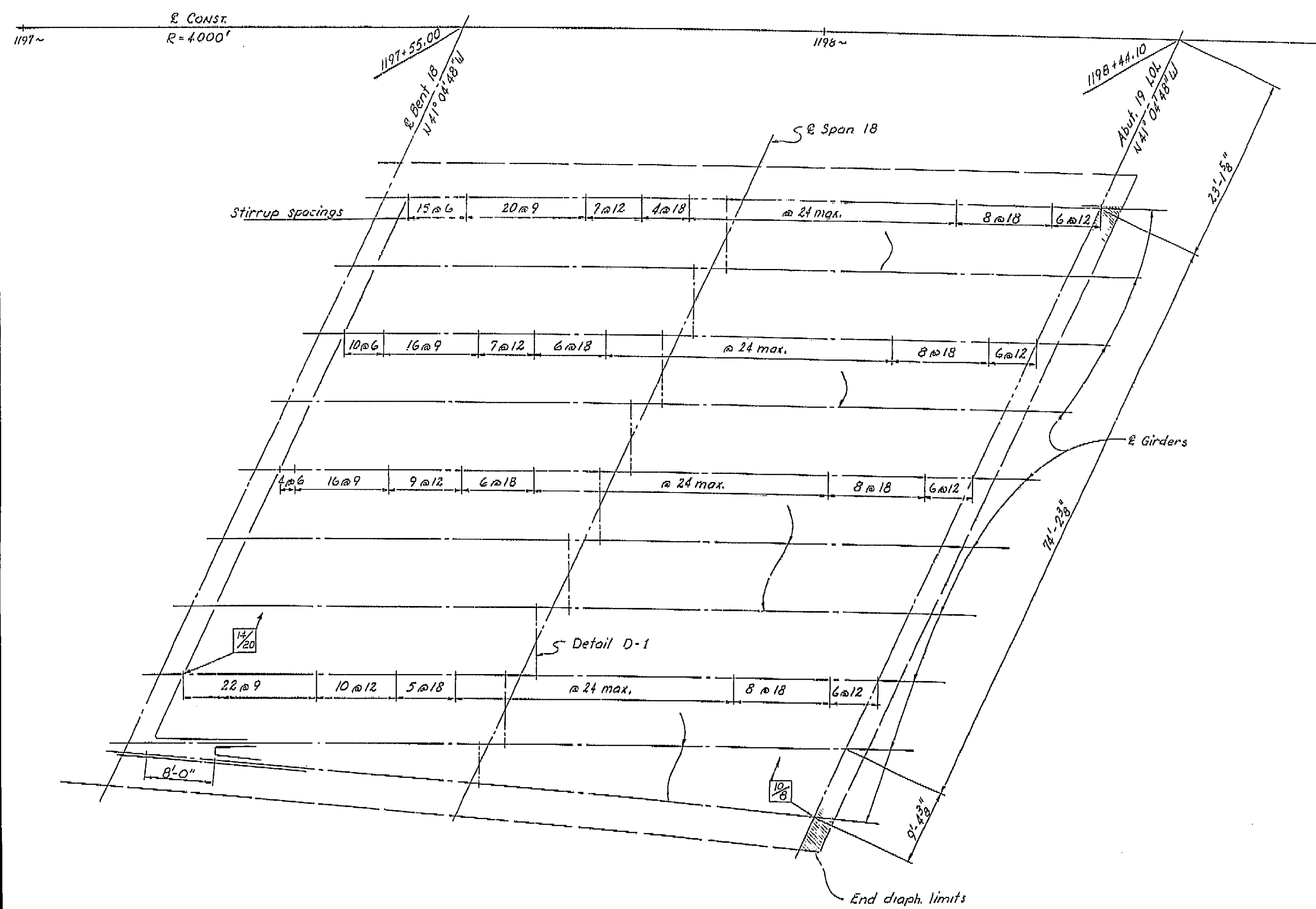
143



FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	44	27	109	161

BRIDGE ENGINEER: *[Signature]*  
CIVIL ENGINEER - LICENSE 5385  
DATE APPROVED: October 5 1964



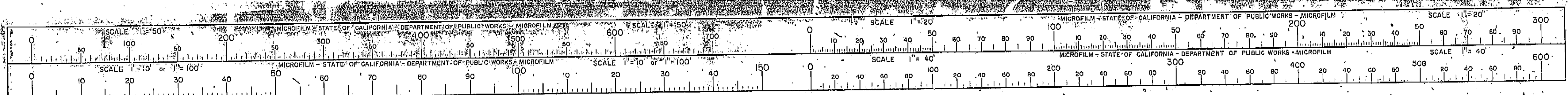
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/22/66, AS SUBMITTED BY RESIDENT ENGINEER *[Signature]*.  
TRACINGS CORRECTED BY: *[Signature]* DATE: 7/1/66

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	<i>RC Blake</i>
DESIGN	By <i>P. J. Jurach</i> 4-63 Checked <i>L. D. Ricci</i> 12-63
DETAILS	By <i>M. J. Utr</i> 8-63 Checked <i>L. D. Ricci</i> 12-63
QUANTITIES	By <i>L. D. Ricci</i> 1-64 Checked <i>[Signature]</i> 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 7 (RT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226R	FILE	DRAWING 42226-18

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-17-72 SIGNATURE *[Signature]* TITLE *SR. RMC*

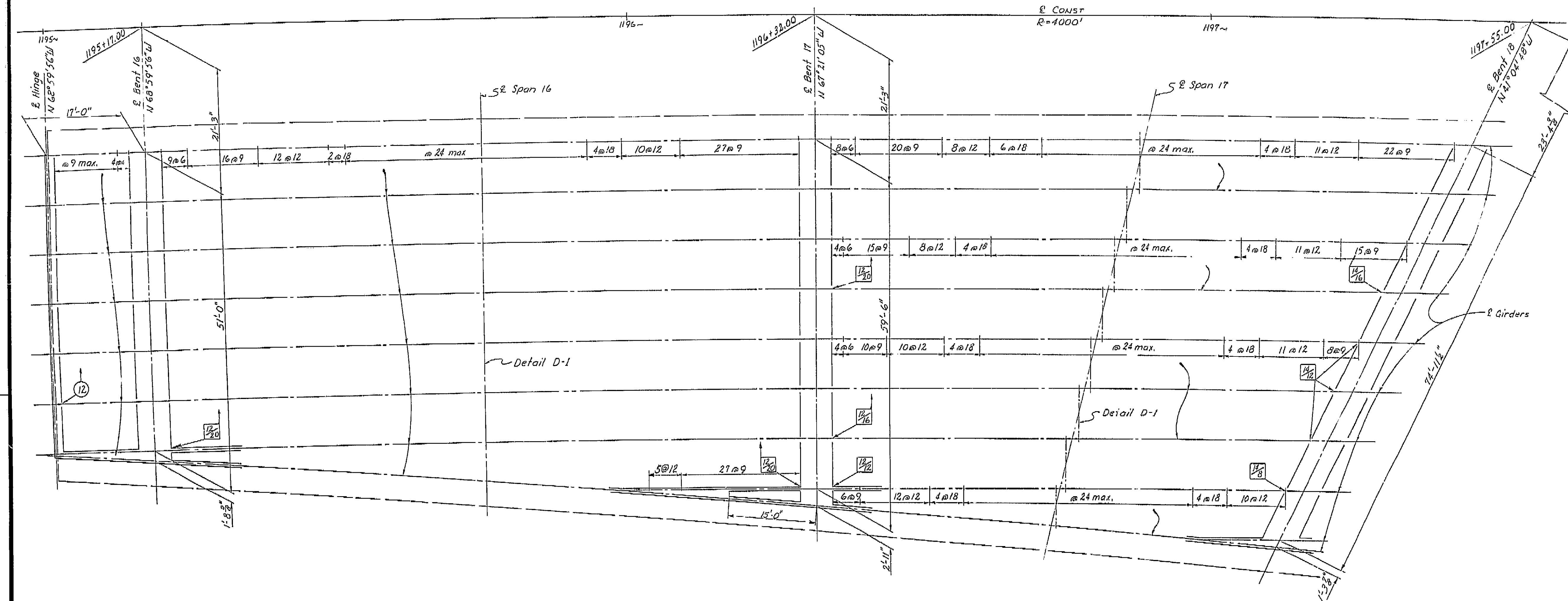




FED. ROAD DIV. NO.	STATE	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	108	151	

DATE APPROVED: October 5, 1964



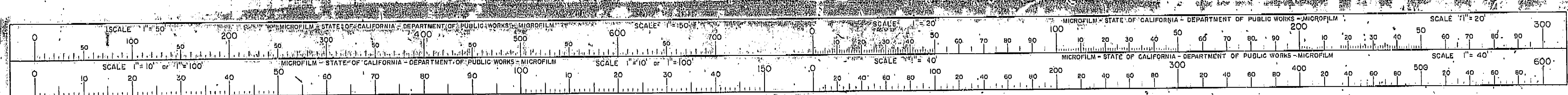
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. H. HARRIS. REVISIONS CORRECTED BY: J.S. DATE: 4/12/66

**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	R. C. Blake
DESIGN	By P. Jurach 12/63
	Checked L. D. Ricci 12-63
DETAILS	By M. J. UTT 8-63
	Checked L. D. Ricci 12-63
QUANTITIES	By L. D. Ricci 1-64
	Checked D. R. ... 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
GIRDER LAYOUT 6 (RT. BR.)	
SCALE 1/8" = 1'-0"	BRIDGE 42-226 R/L
FILE	DRAWING 42226-17

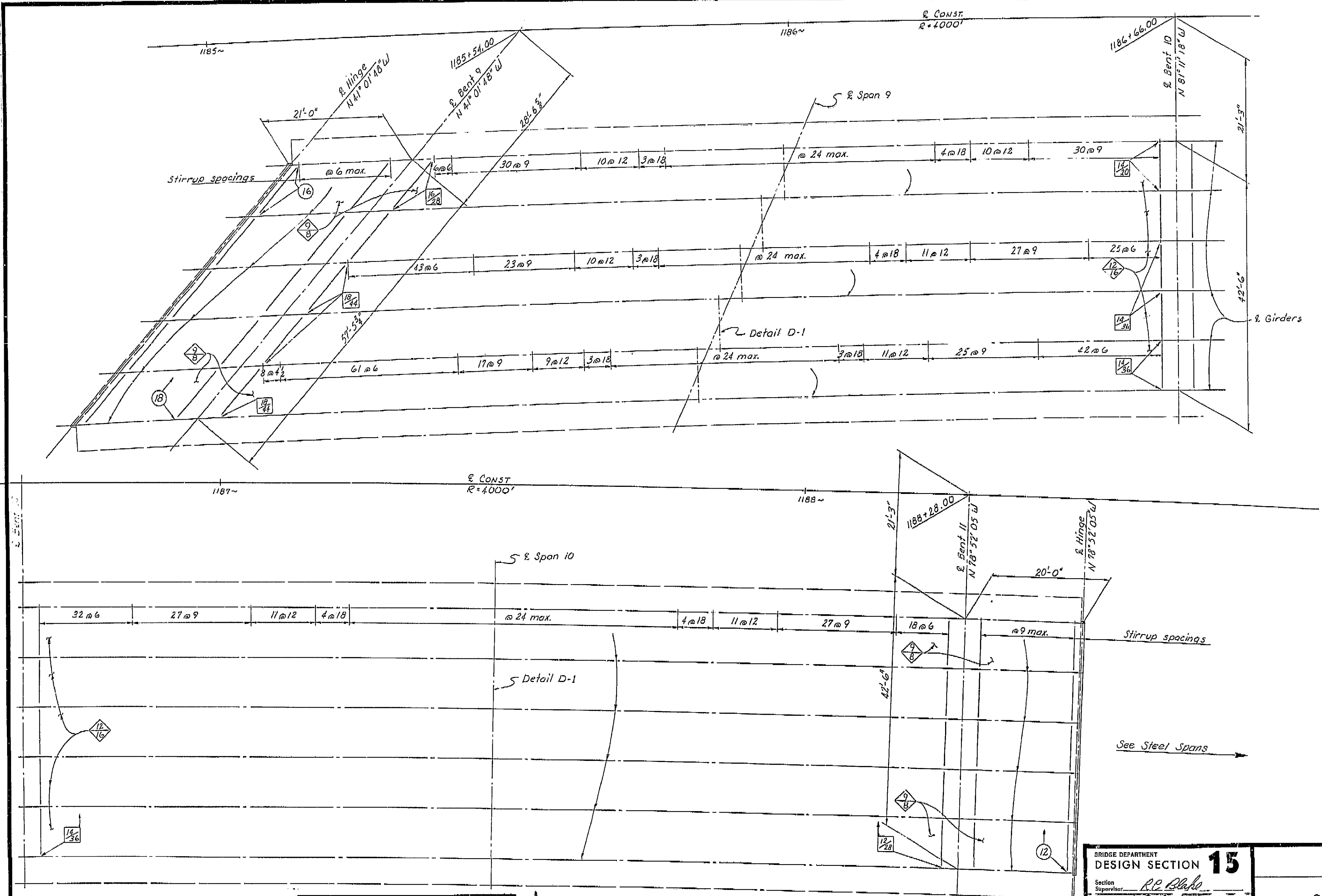
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE Sr. RMC











THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/23/66, AS SUBMITTED BY RESIDENT ENGINEER J. Hunter. TRACINGS CORRECTED BY: AS DATE: 7/1/66

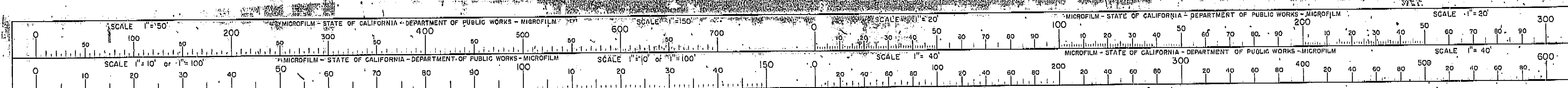
106

**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

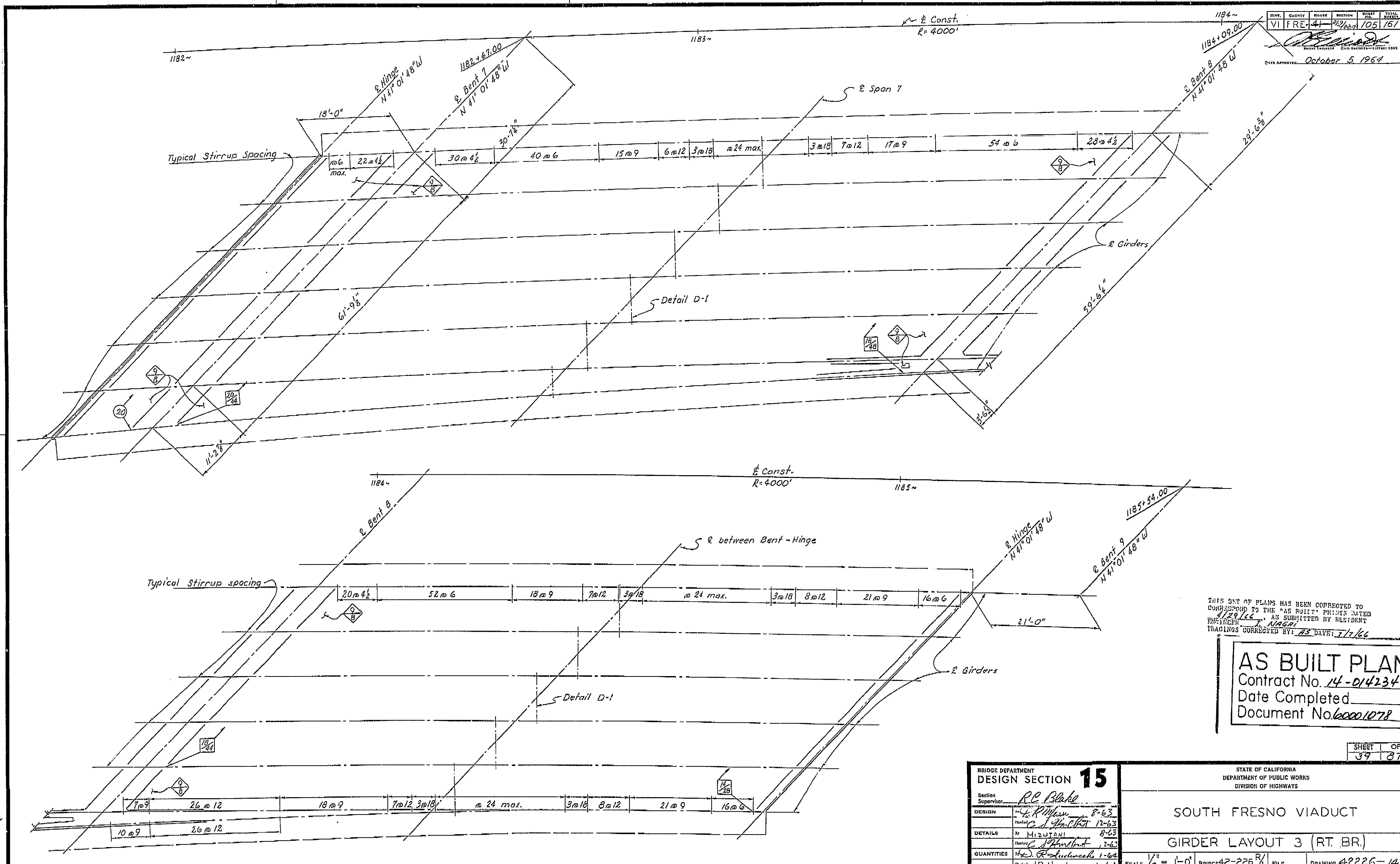
BRIDGE DEPARTMENT		<b>DESIGN SECTION 15</b>
Section Supervisor: <u>R.E. Blake</u>		
DESIGN	Checked: <u>C. J. Hunter</u> 12-63	
DETAILS	By: <u>MIZUTANI</u> 8-63	
QUANTITIES	Checked: <u>C. J. Hunter</u> 12-63	
	Checked: <u>J.P. Hunter</u> 1-64	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
GIRDER LAYOUT 4 (RT. BR.)	
SCALE 1/8" = 1'-0"	BRIDGE 42-226R FILE
DRAWING 42226-15	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE James E. Cantrell S.E. RMC





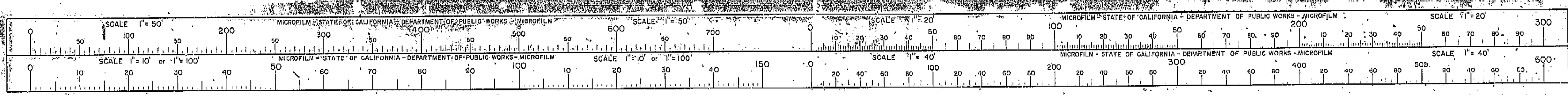


THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/28/66, AS SUBMITTED BY RESIDENT ENGINEER J. H. HARRIS. TRACINGS CORRECTED BY: J.S. DATE: 3/1/66

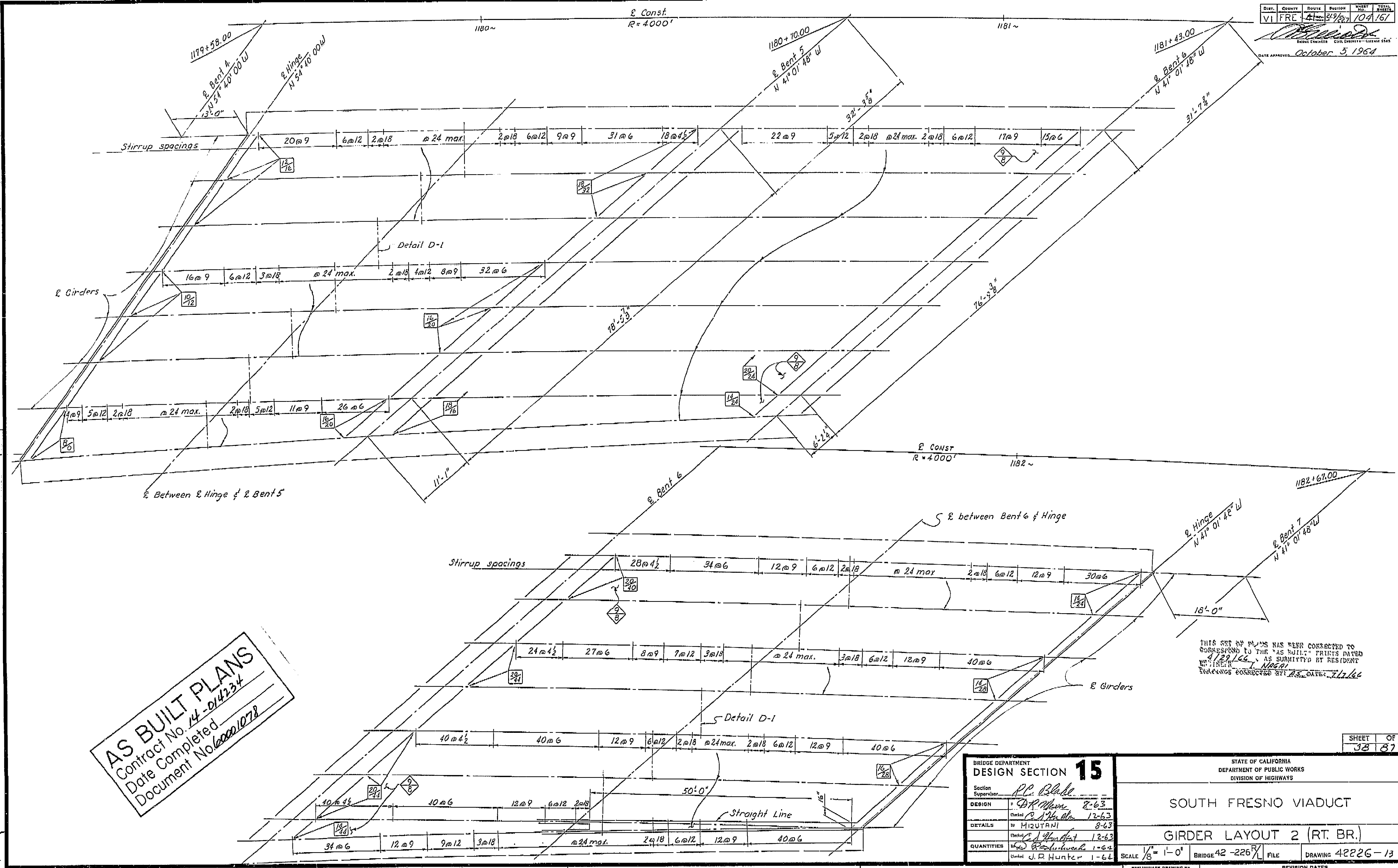
**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT <b>DESIGN SECTION 15</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: <u>R.C. Blake</u> DESIGN: <u>E. R. Hoffman</u> 8-63 CHECKED: <u>C. J. H. C. H.</u> 12-63 DETAILS: <u>M. ZUTANI</u> 8-63 CHECKED: <u>C. J. H. C. H.</u> 12-63 QUANTITIES: <u>H. R. R. R.</u> 1-64 CHECKED: <u>J. R. Hunter</u> 1-64		SOUTH FRESNO VIADUCT GIRDER LAYOUT 3 (RT. BR.) SCALE 1/8" = 1'-0" BRIDGE 42-226 R/L FILE DRAWING 42226-14	
PRELIMINARY DRAWING NO. <u>P-18</u>		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE James E. Carr TITLE Sr. RMC







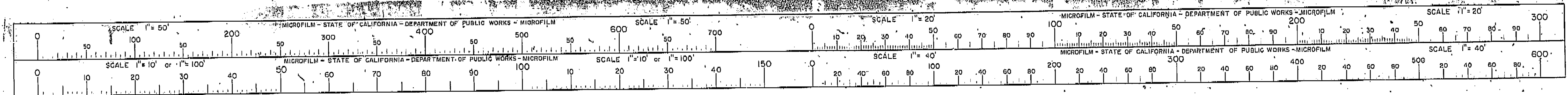
AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI. CHANGES CONNECTED BY D.S. DATE: 7/7/66

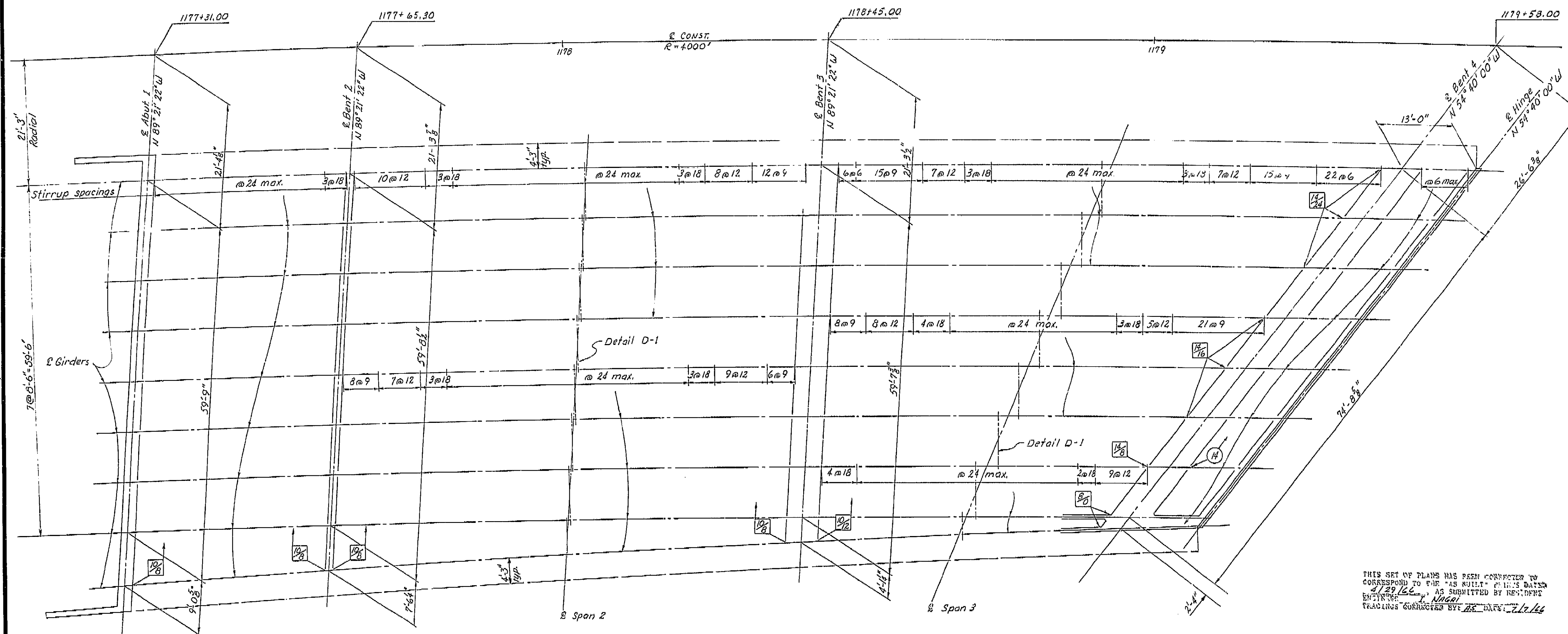
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.C. Blake
DESIGN	by D.P. Moore 8-63
Checked	R. A. H. 12-63
DETAILS	by HIZUTANI 8-63
Checked	S. J. Hunter 12-63
QUANTITIES	by J. R. Hunter 1-64
Checked	J. R. Hunter 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 2 (RT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226R	FILE	DRAWING 42226-13
REVISION DATA			
P. 1	2	3	4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE [Signature] TITLE S.R. RMC







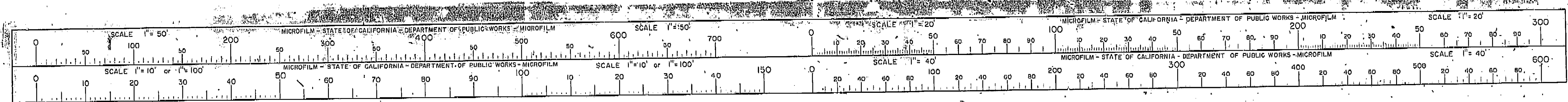
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY REVIDENT ENGINEER J. N. Nigam. REVISIONS CORRECTED BY: J. N. Nigam DATE: 2/26/66

**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R. C. Blake
DESIGN	by D. R. Meyer 8-63 checked by Hunter 1-64
DETAILS	by Mizutani 8-63 checked by S. J. Hunter 12-63
QUANTITIES	by S. J. Hunter 1-64 checked by J. P. Hunter 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 1 (RT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226	FILE	DRAWING 42226-12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE: [Signature] TITLE: S. R. RMC

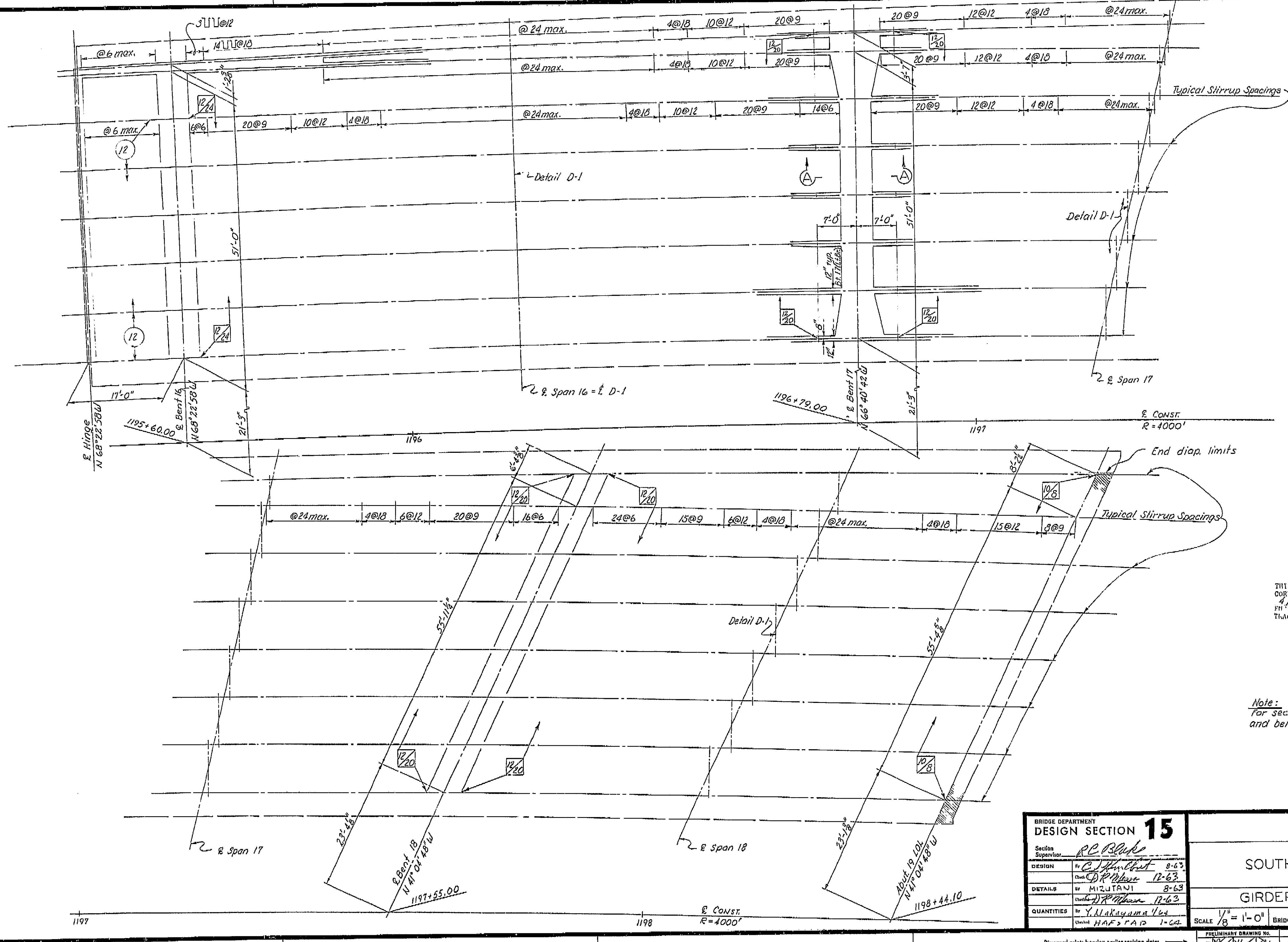




FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FR	42-226	102	161	

DATE APPROVED: October 5, 1964



**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed  
 Document No. 60001078

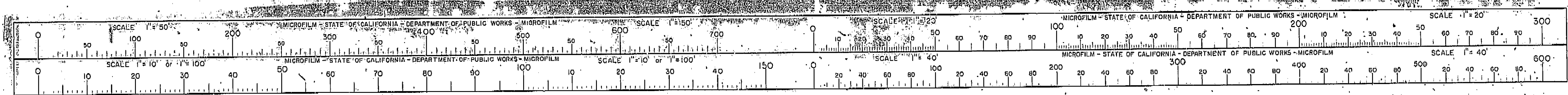
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NABER. TRACINGS CORRECTED BY: AS DATE: 7/7/66

Note:  
 For section "A-A" showing bottom slab thickness and bent cap dimensions, see "Bent 17 (L. Br.)"

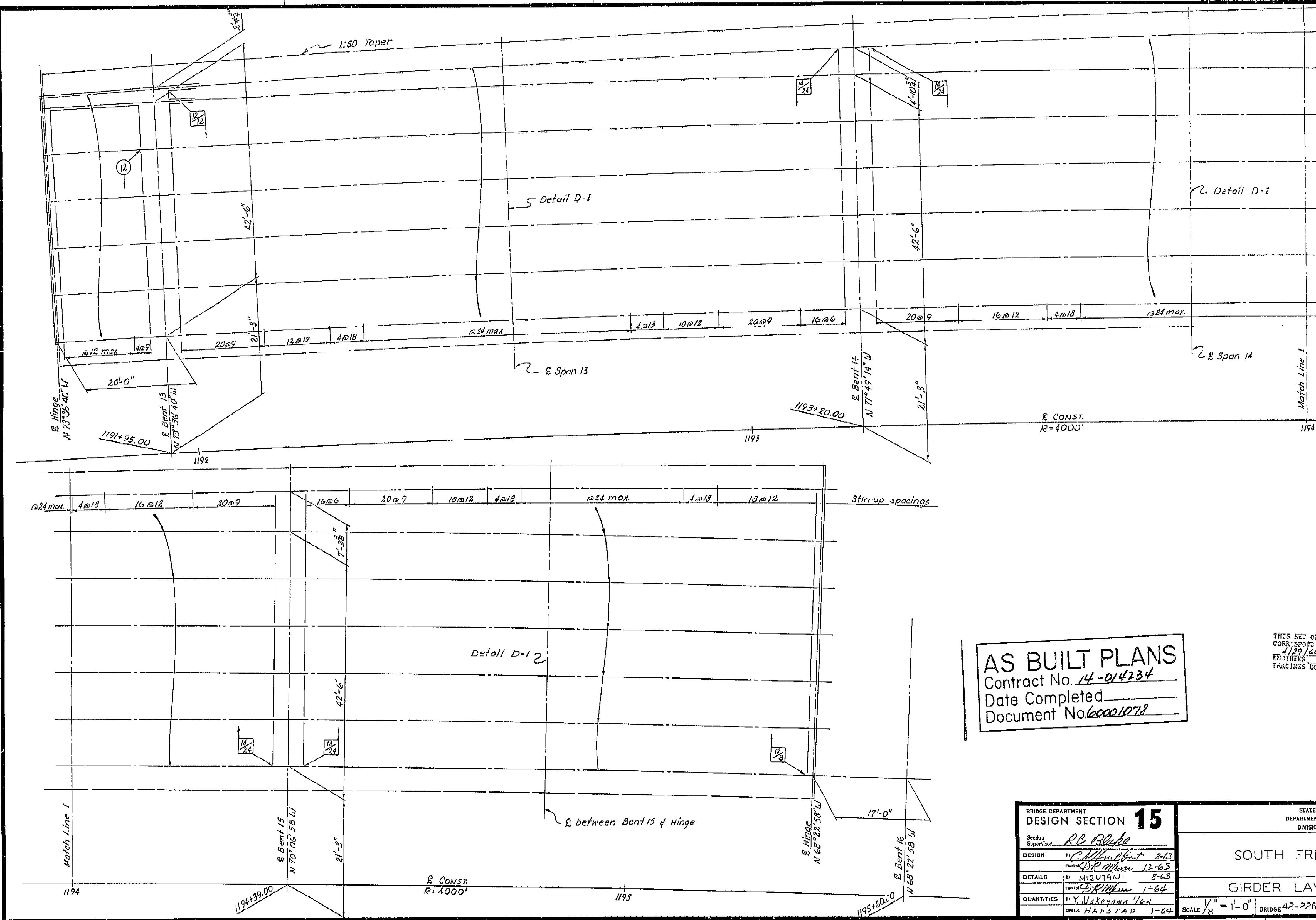
BRIDGE DEPARTMENT		DESIGN SECTION 15
Section Supervisor	R.C. Blake	
DESIGN	by C.J. Kunkel 8-63	
DETAILS	by MIZUTANI 8-63	
QUANTITIES	by Y. Nakayama 1-64	
	checked HAF:CAP 1-64	

STATE OF CALIFORNIA		DEPARTMENT OF PUBLIC WORKS		DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT					
GIRDER LAYOUT 6 (LT. BR.)					
SCALE 1/8" = 1'-0"	BRIDGE 42-226	FILE	DRAWING 42226-11		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE Sr. RMC







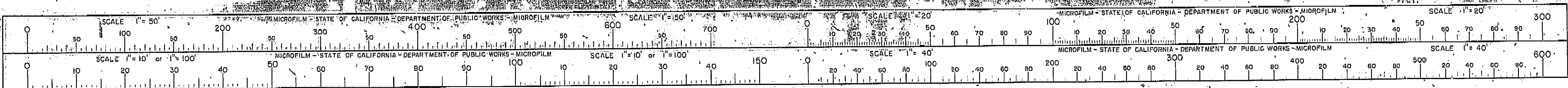
**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI. REVISIONS CORRECTED BY: J.S. DATE: 7/2/66

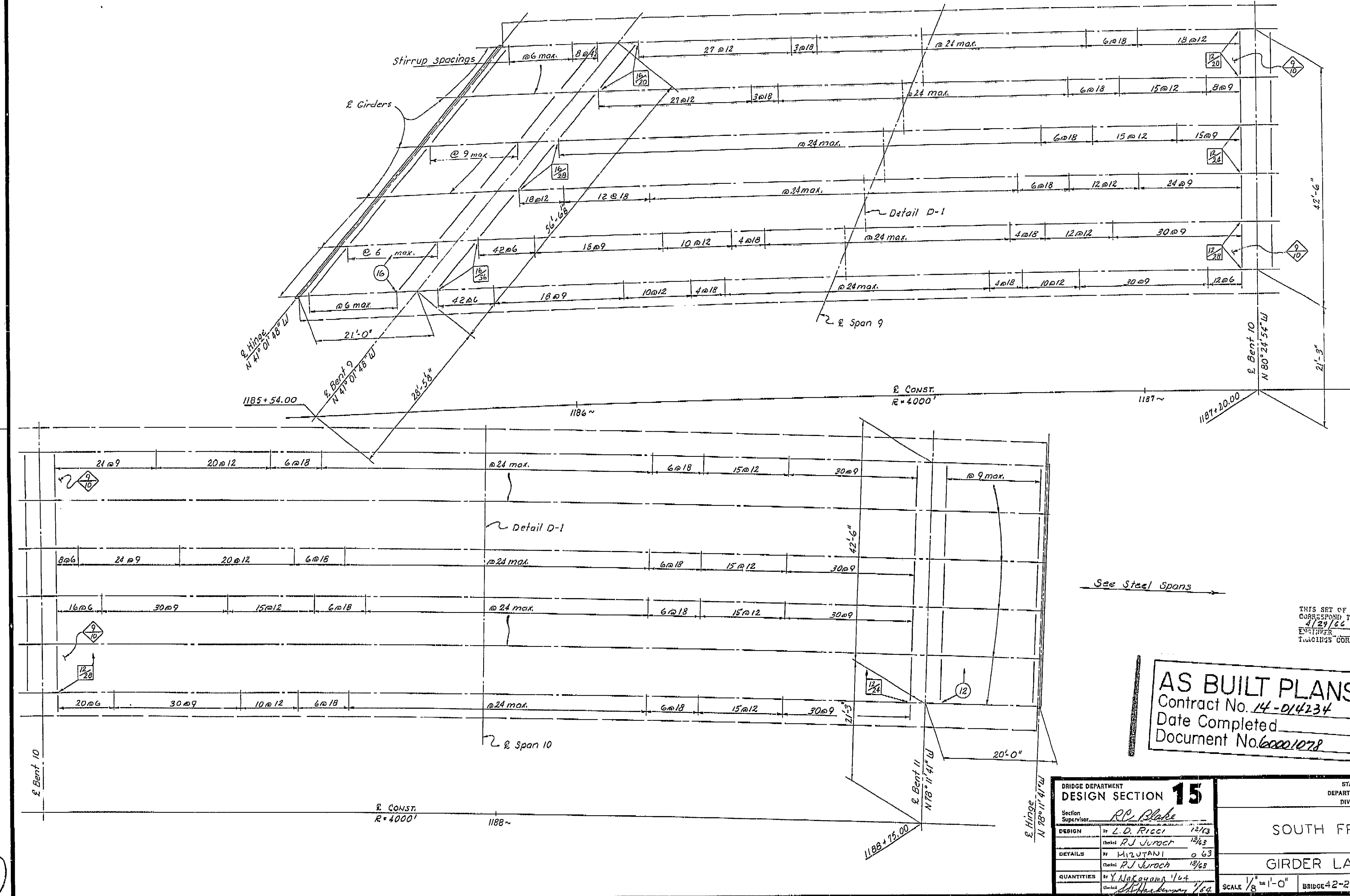
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	RC Blake
DESIGN	by C. Allen 11-63
DETAILS	by MIZUTANI 8-63
QUANTITIES	by Y. Nakayama 1-64
	Checked HAFS TAD 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 5 (LT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226	FILE	DRAWING 42226-10
PRELIMINARY DRAWING NO. P-104		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE SR PMO







See Steel Spans

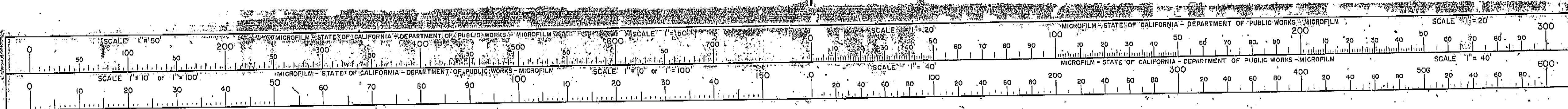
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai. TYPINGS CORRECTED BY: J.S. DATE: 7/7/66

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor <i>R.C. Blake</i>			
DESIGN	by <i>L.D. Ricci</i>	12/13	
CHECKED	<i>R.J. Jurach</i>	12/13	
DETAILS	by <i>M. J. Tani</i>	0 63	
CHECKED	<i>R.J. Jurach</i>	12/13	
QUANTITIES	by <i>J. Nakayama</i>	1/14	
CHECKED	<i>J. Nakayama</i>	1/14	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 4 (LT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226 R/L	FILE	DRAWING 42226-9
PRELIMINARY DRAWING NO. <i>PJ 118</i>			
REVISION DATES			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE *James E. Clout* TITLE *SR. RMO*

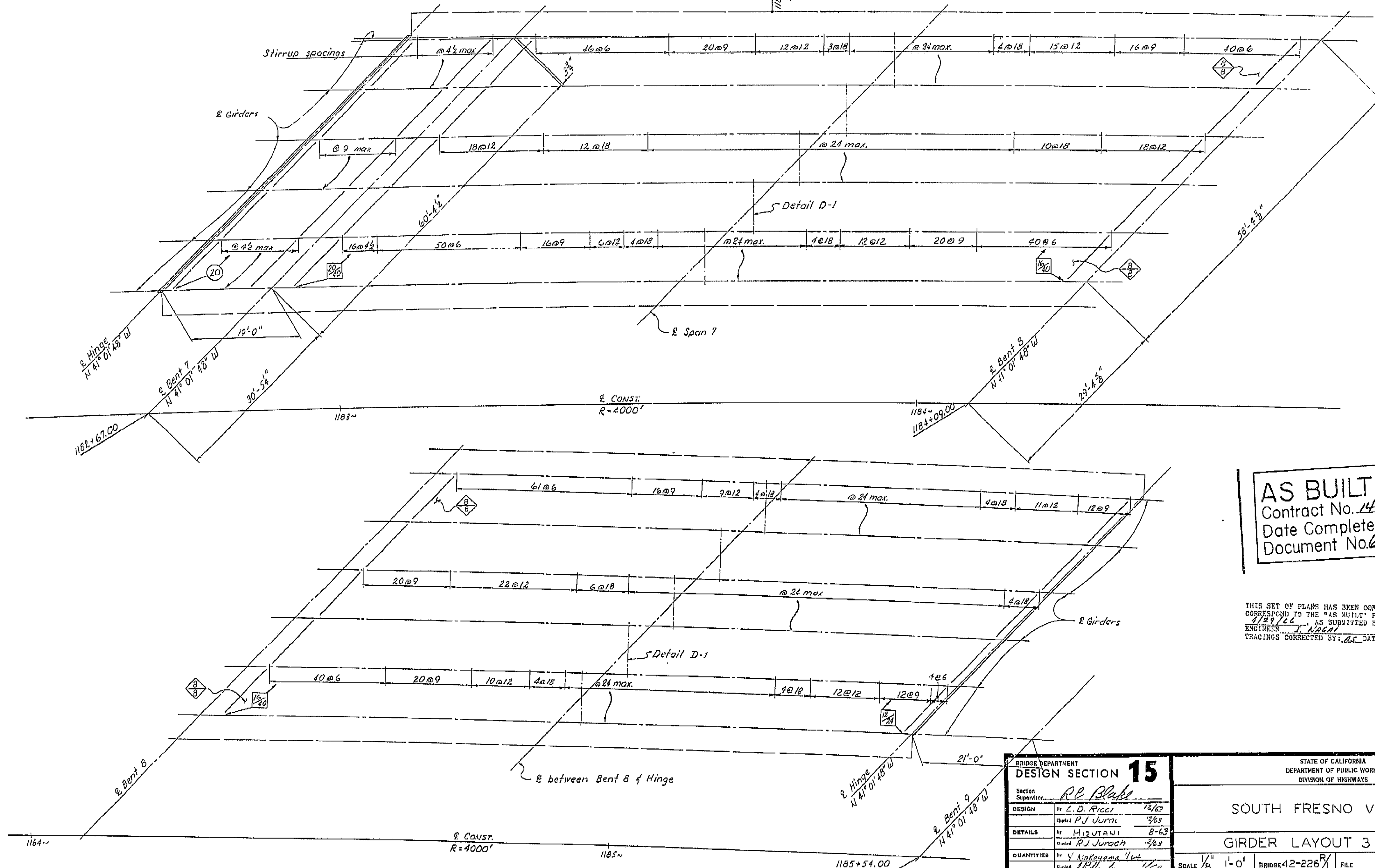




FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	44234	99	167

BRIDGE ENGINEER: *[Signature]*  
DATE APPROVED: October 5, 1964



**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

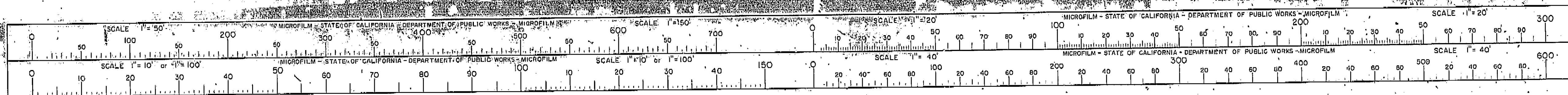
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER *[Signature]*.  
TRACINGS CORRECTED BY: *[Signature]* DATE: 7/2/66

SHEET	OF
99	167

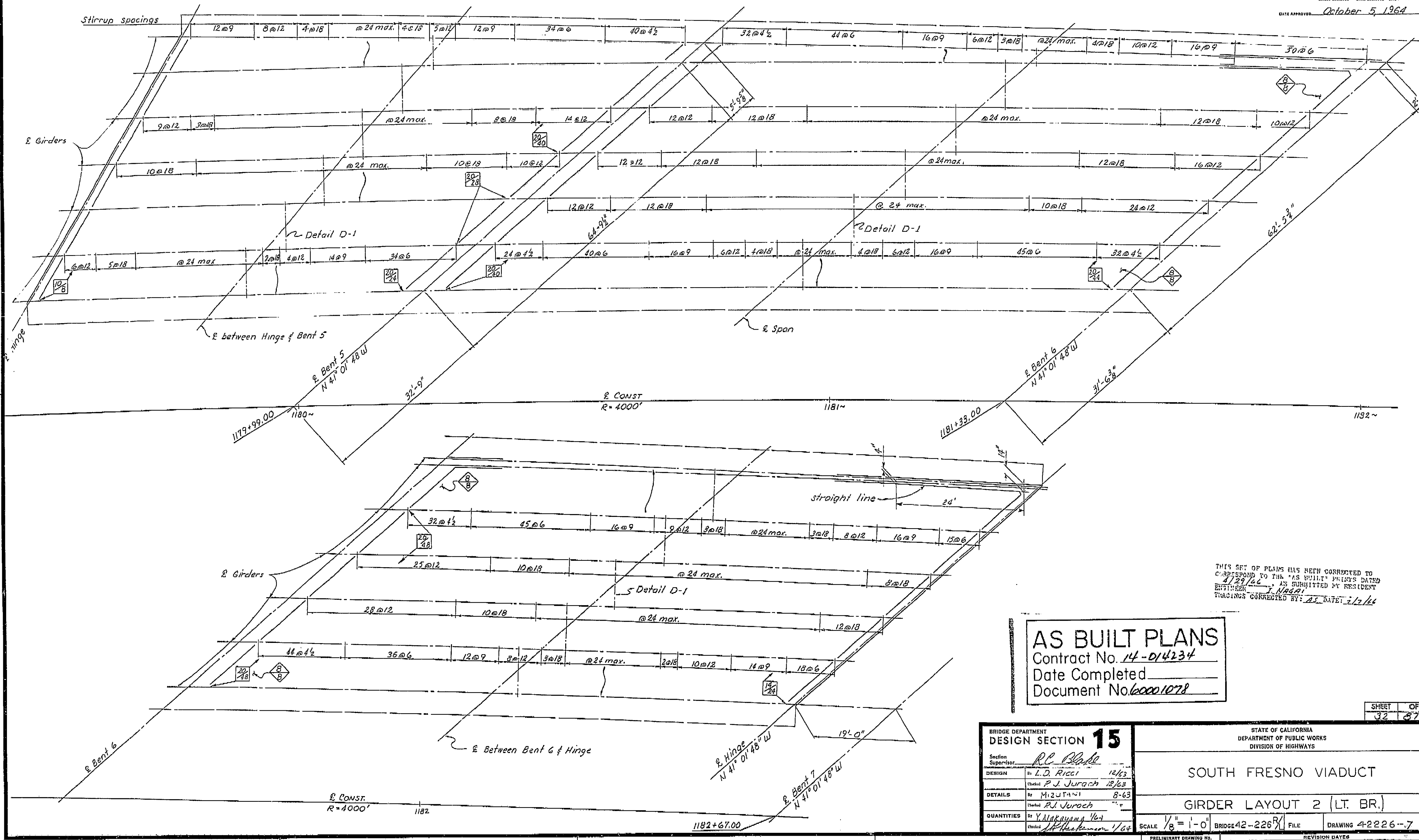
BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor	<i>Re Blake</i>		
DESIGN	By L. D. Rice	12/63	
	Checked P. J. Juroch	3/64	
DETAILS	By M. J. Tani	8-63	
	Checked P. J. Juroch	3/64	
QUANTITIES	By N. K. K. K.	1/64	
	Checked P. J. Juroch	3/64	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 3 (LT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226	FILE	DRAWING 42226-3
PRELIMINARY DRAWING NO. <i>[Signature]</i> DATE <i>[Signature]</i>			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE *[Signature]* TITLE *[Signature]*







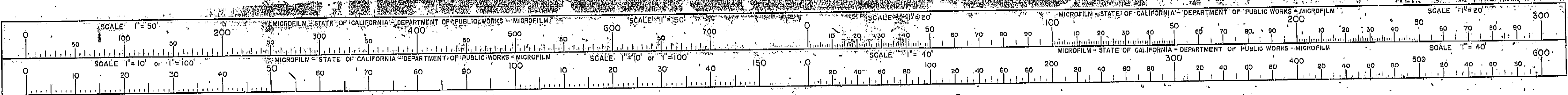
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE 'AS BUILT' PRINTS DATED 7/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGARI. TRACINGS CORRECTED BY: J.S. DATE: 7/12/66

**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

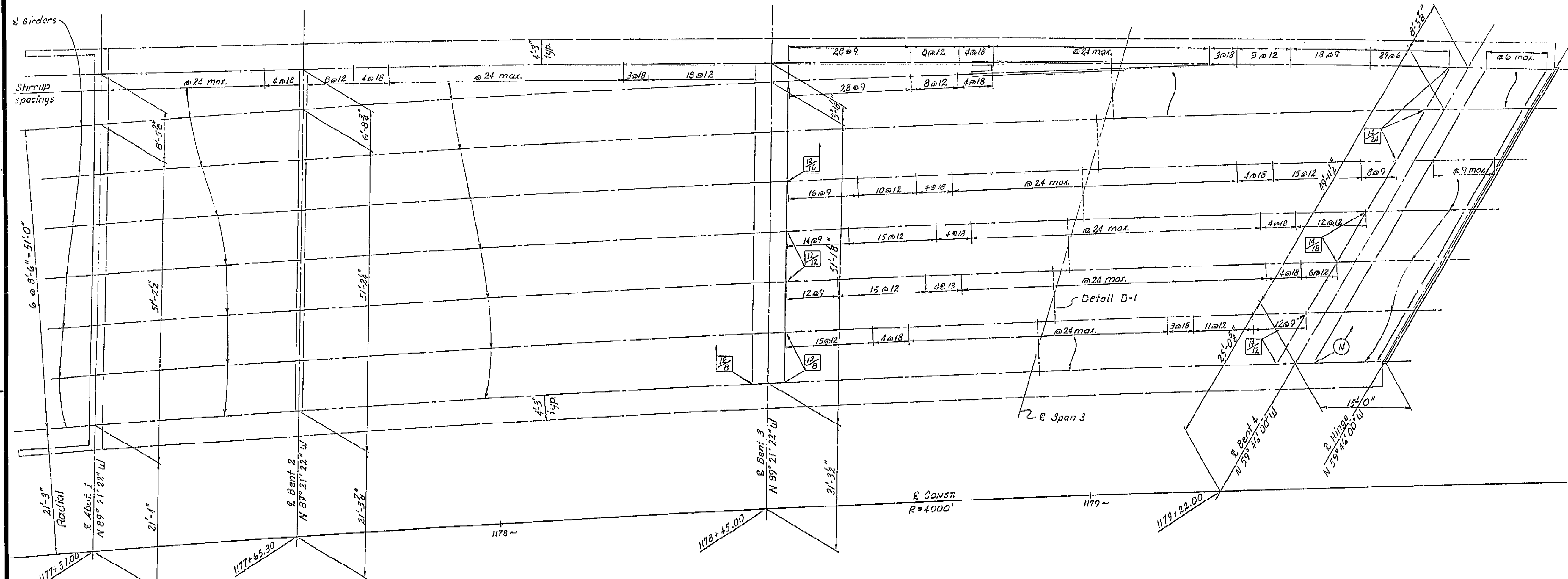
BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor	RC Blake		
DESIGN	By L.D. Ricci	12/63	
	Checked P.J. Jurach	12/63	
DETAILS	By MIZUTANI	8-63	
	Checked P.J. Jurach		
QUANTITIES	By Y. Nakayama	1/64	
	Checked J. H. Harkness	1/64	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
GIRDER LAYOUT 2 (LT. BR.)			
SCALE 1/8" = 1'-0"	BRIDGE 42-226R	FILE	DRAWING 4-2226-7
REVISION DATES			
P. 1/2/64			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]







THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. M. HALL. REVISIONS CORRECTED BY "AS" DATED 7/12/66

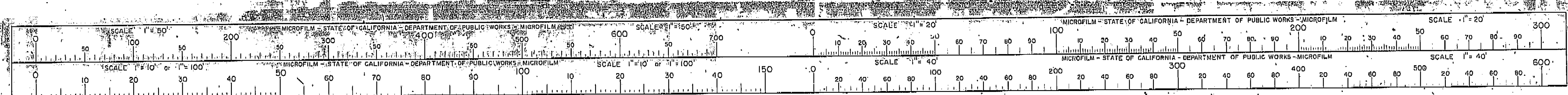
SHEET 97 OF 167

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

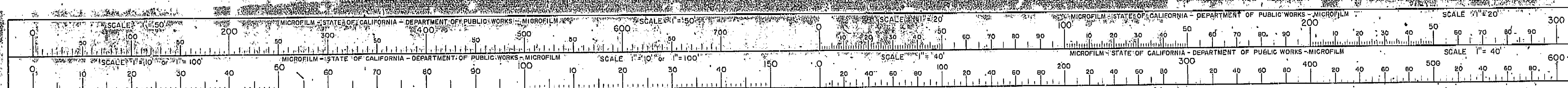
BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R. E. Blake	
DESIGN	by L. D. Ricci	12/63
	Checked P. J. Jurich	1/64
DETAILS	by M. J. Tuttle	8-63
	Checked P. J. Jurich	1/64
QUANTITIES	by J. M. H. Hall	1/64
	Checked S. H. Henderson	1/64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		
SOUTH FRESNO VIADUCT		
GIRDER LAYOUT 1 (LT. BR.)		
SCALE 1/8" = 1'-0"	BRIDGE 42-226R	FILE
DRAWING 42226-6		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE S. R. M. C.





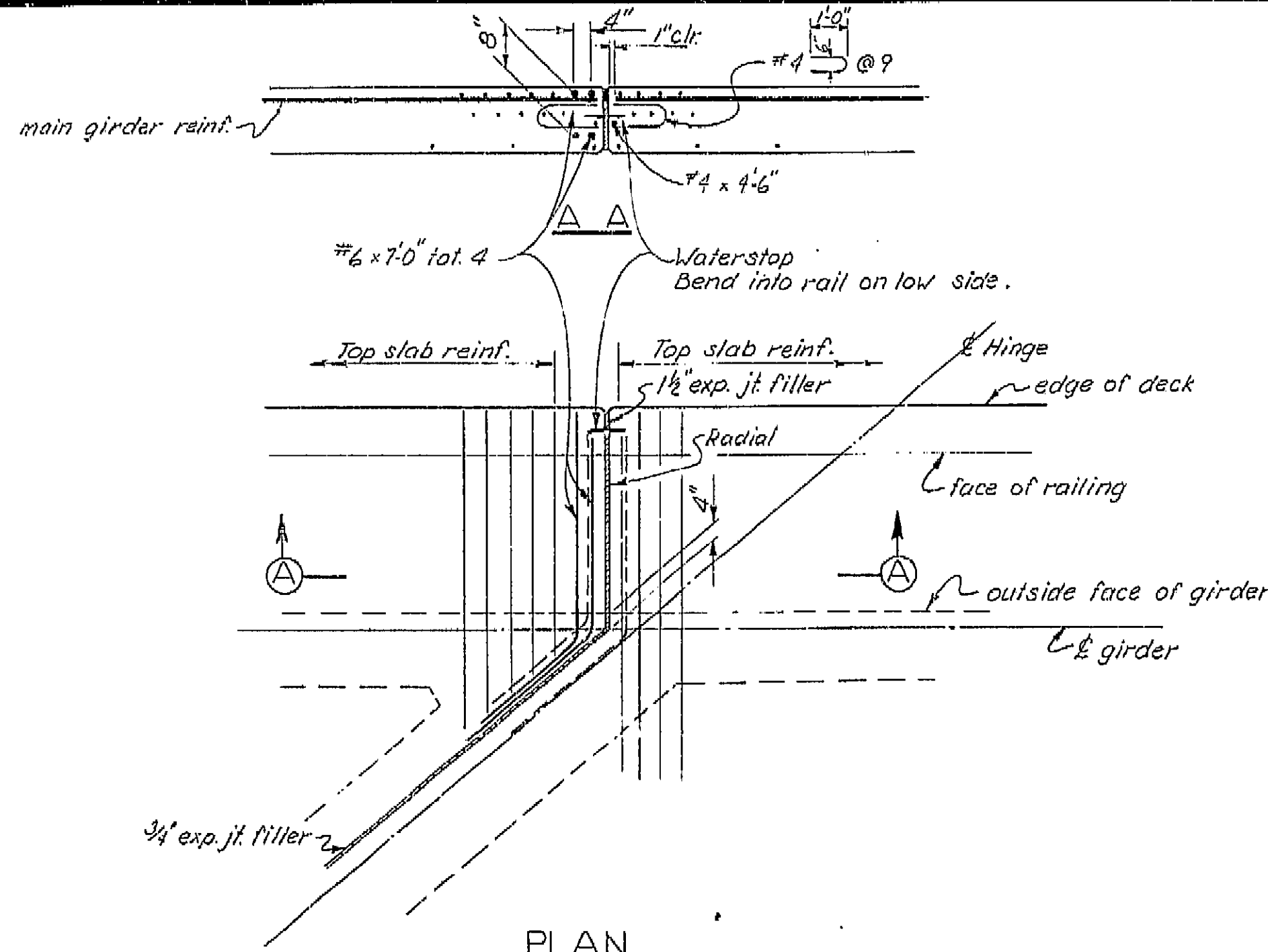




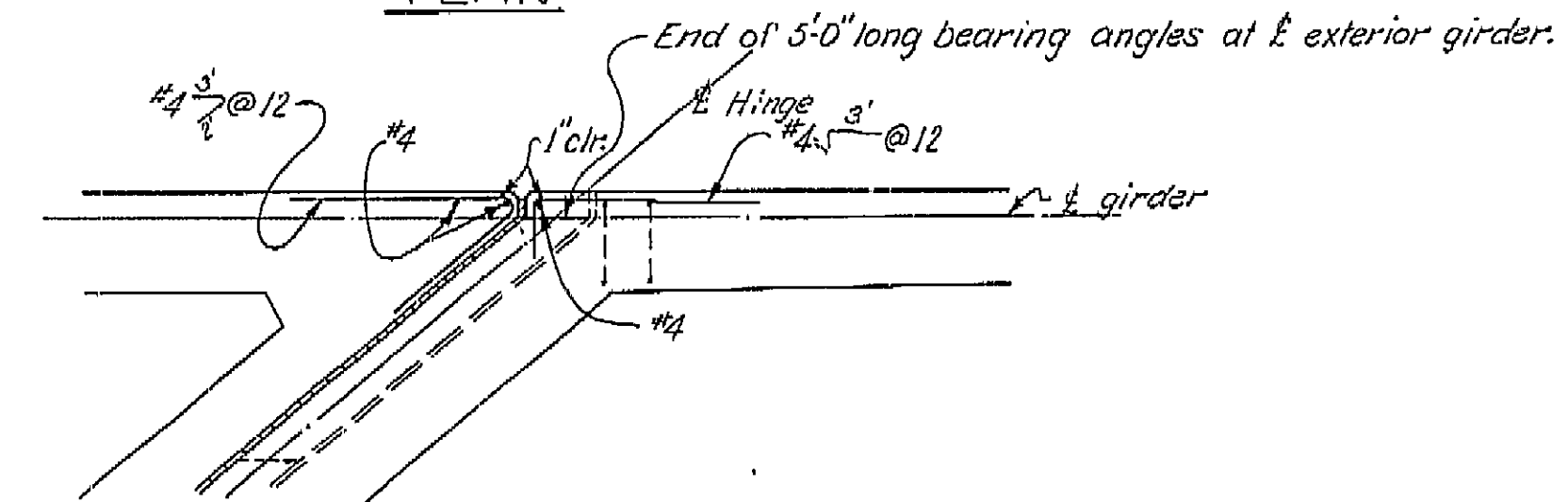
FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	226	113	161

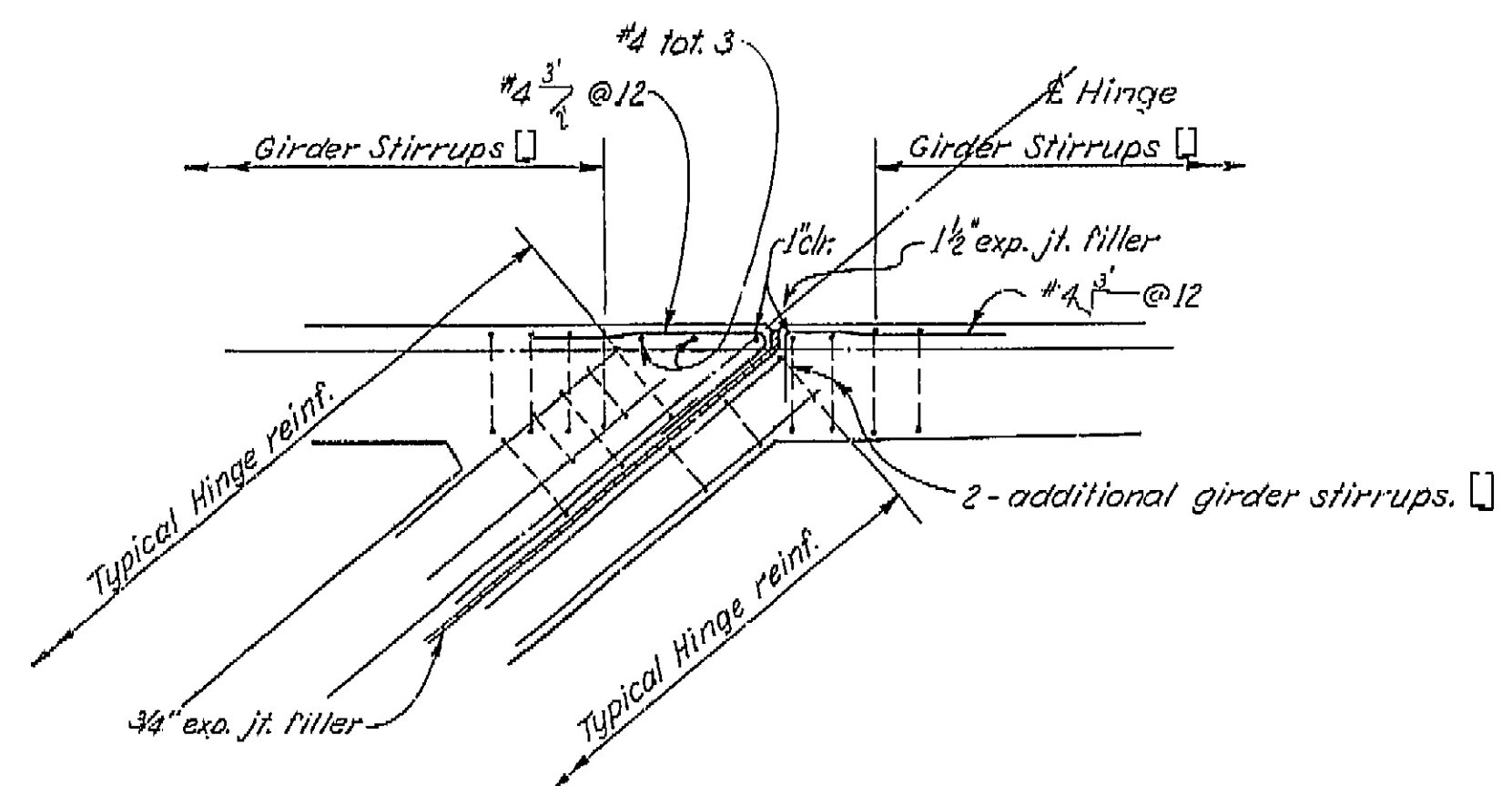
BRIDGE ENGINEER: *[Signature]*  
 DATE APPROVED: October 5, 1964



PLAN



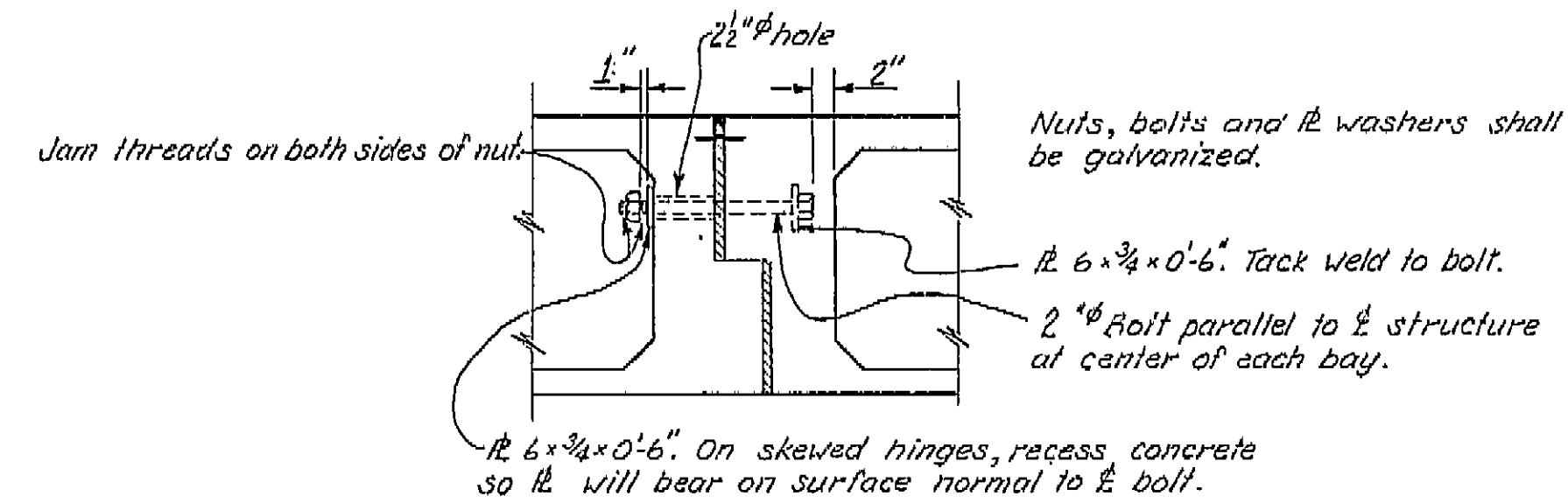
SECTION ABOVE HINGE SEAT



SECTION BELOW HINGE SEAT

ADDITIONAL HINGE DETAILS IN SKEWS OVER 15°

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/23/66, AS SUBMITTED BY FIELD ENGINEER J. NAGEL. TRACINGS CORRECTED BY: AS DATE: 7/7/66



HINGE TIE BOLTS

no scale

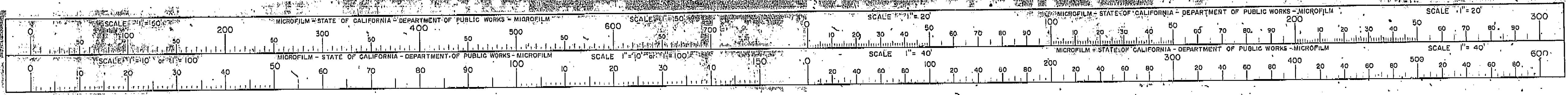
SHEET	OF
47	187

**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed  
 Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	<i>R. R. Blake</i>
DESIGN	by <i>D. G. Banks</i> 11-63
checked	<i>B. L. Fraser</i> 3-64
DETAILS	by <i>D. G. Banks</i> 11-63
checked	<i>B. L. Fraser</i> 3-64
QUANTITIES	by <i>D. G. Banks</i> 1-64
checked	<i>B. L. Fraser</i> 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
HINGE DETAILS NO. 2			
SCALE 1/2" = 1'-0" or as noted.	BRIDGE 42-226 R/L	FILE	DRAWING 42226-59
PRELIMINARY DRAWING NO.	REVISION DATES		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-77 SIGNATURE *[Signature]* TITLE *Sr. RMC*





Expansion Hinge and Rubber Waterstop Detail, Rev. 2-59 R.T.K.

Exp. Hinge and Rubber Waterstop Detail, Rev. 2-59 R.T.K.

1/2" Hinge Changes and Removal of 7/8" Anchor Detail, 2-6-61 J.T.J.

Deleted "Detail of Rubber Waterstop" and "Sealed Exp. Hinge" detail, 2-27-62 R.M.S.

Added "Stud Anchors" Section Y-Y, Anchorage, Alternatives detail, 3-26-63

Made room for Exp. jt. filler dim in SECTION THRU EXPANSION ASSEMBLY detail, 3-26-63

Added 3/4" dim. to exterior girder assembly in "HINGE NORMAL TO GIRDER" detail, 7-7-63 J.T.J.

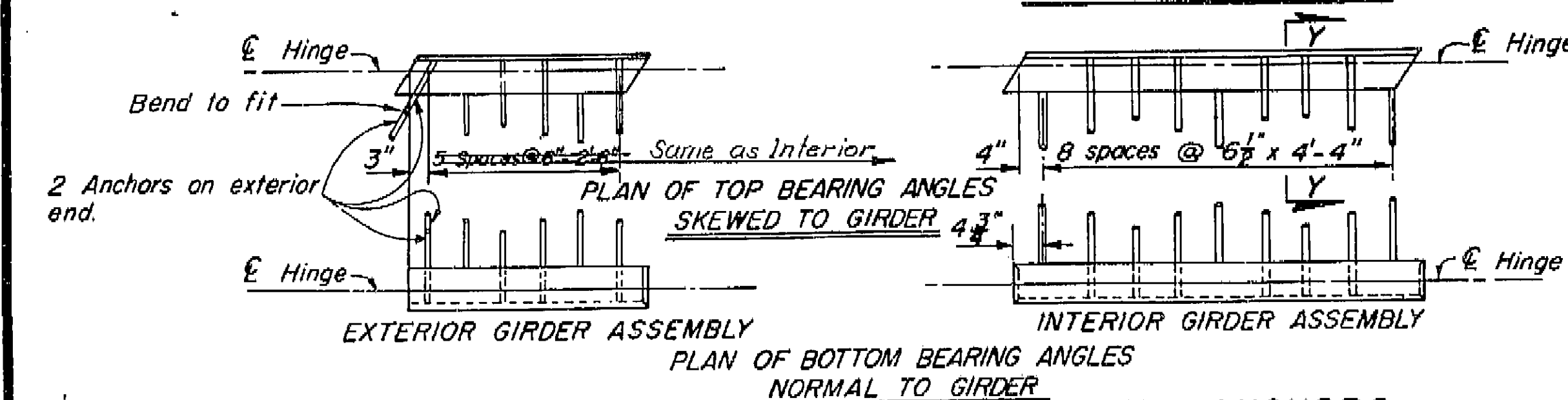
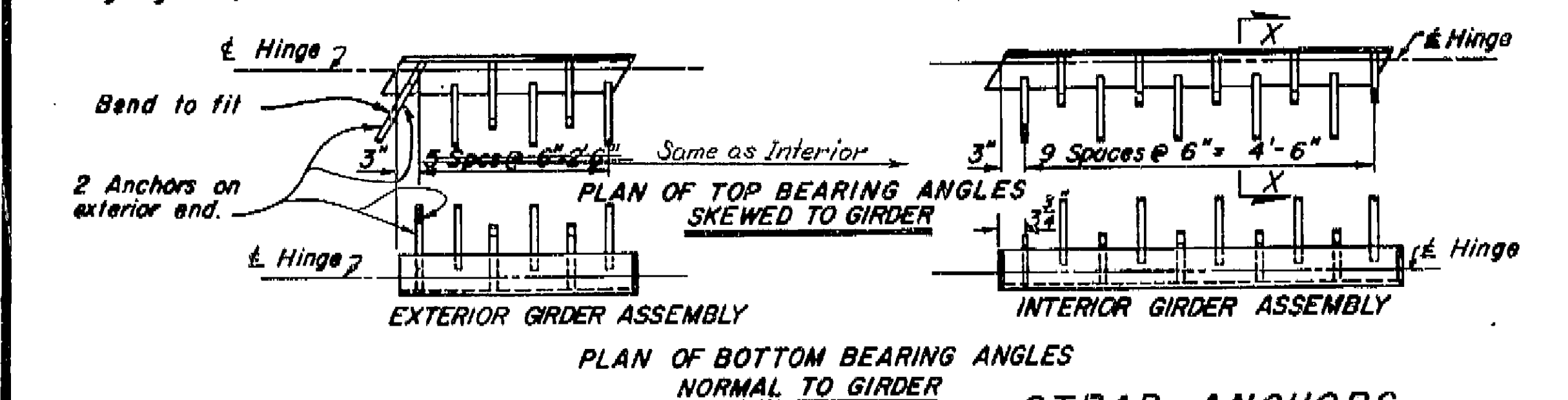
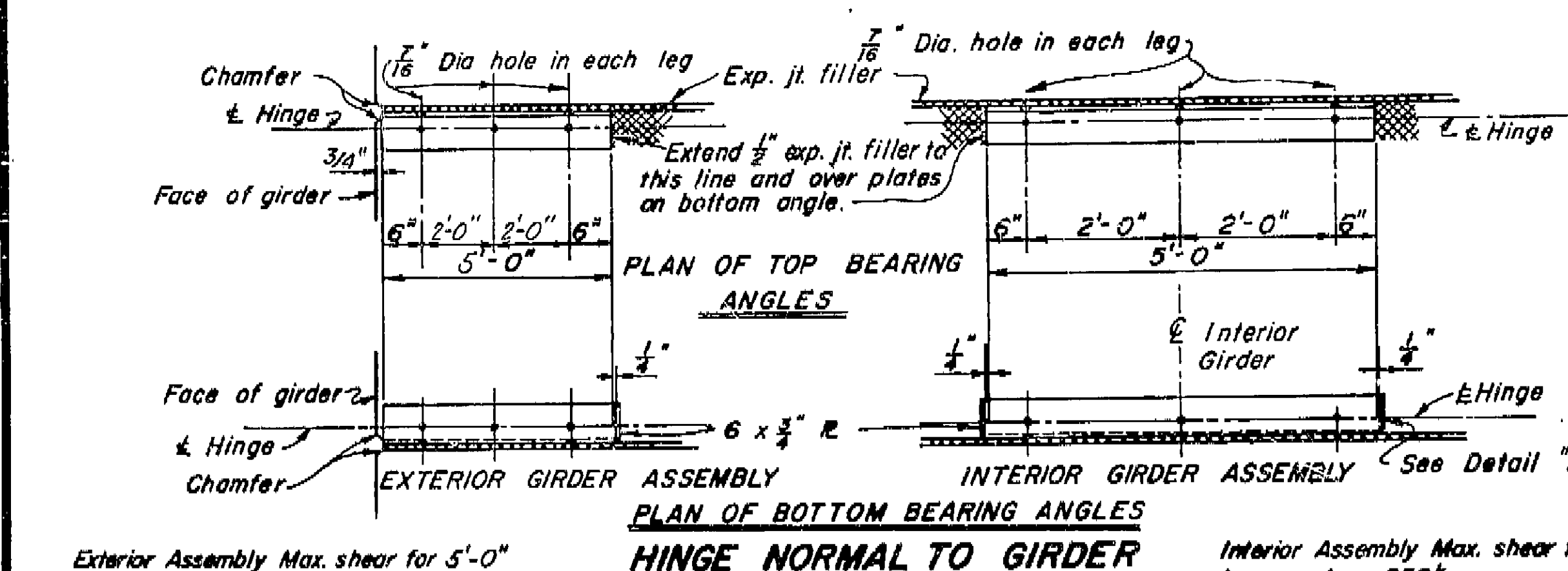
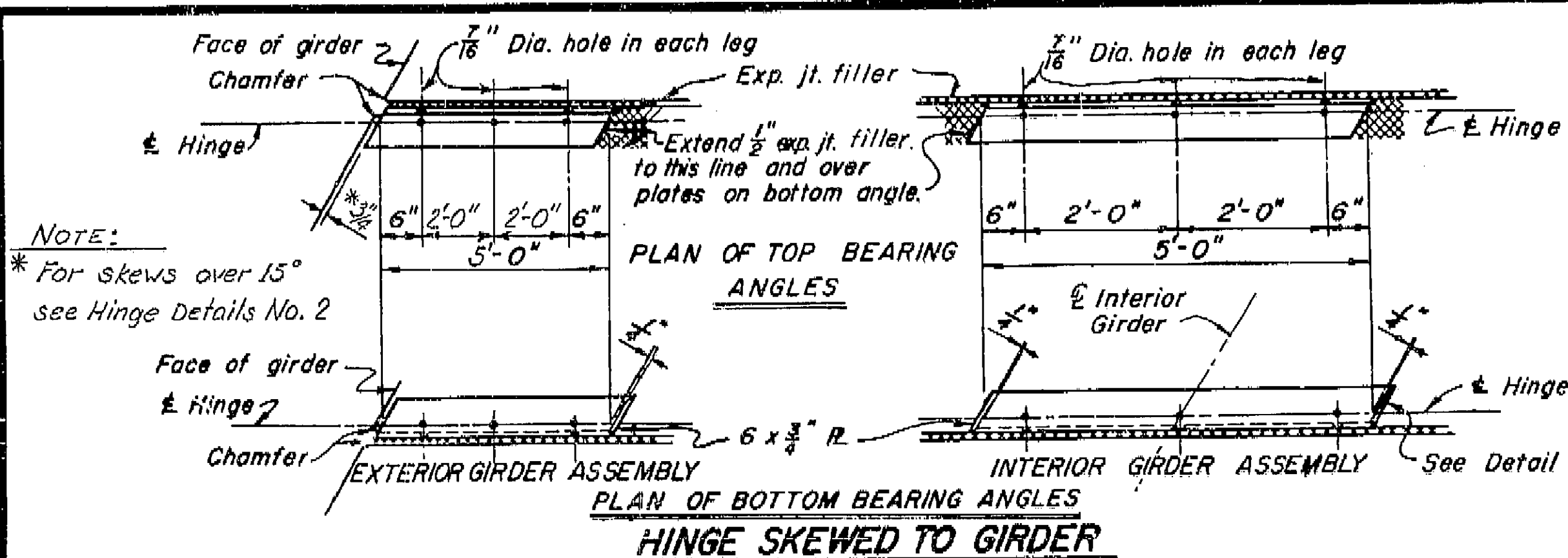
Rev. Sec. Y-Y to Stud Anchors, 4-6-63

Added 1" dim. to Typical Exp. Hinge Detail, 7-15-63 J.T.J.

Deleted Rubber from all Waterstop notes, Rev. Sec. block in lower right hand corner. Deleted block above detail. Sec. block in upper right corner. Rev. Title box in lower right corner, 8-1-63

DIST	COUNTY	ROUTE	SECTION	DATE	SCALE
VI	FRE	47	279/226	11/2/61	

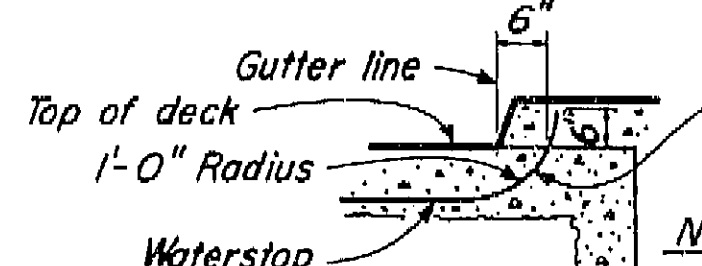
October 5, 1964



**ANCHOR ALTERNATIVES**

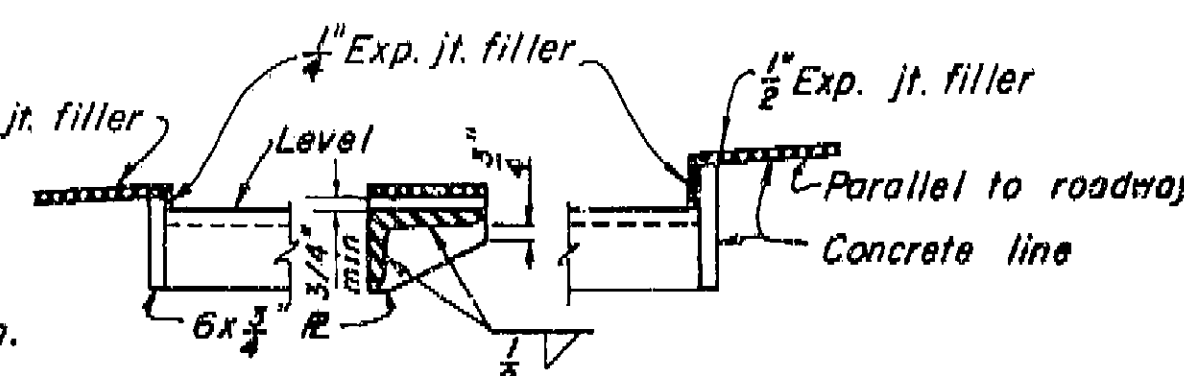
**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed  
 Document No. 60001078

To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion filler. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge.

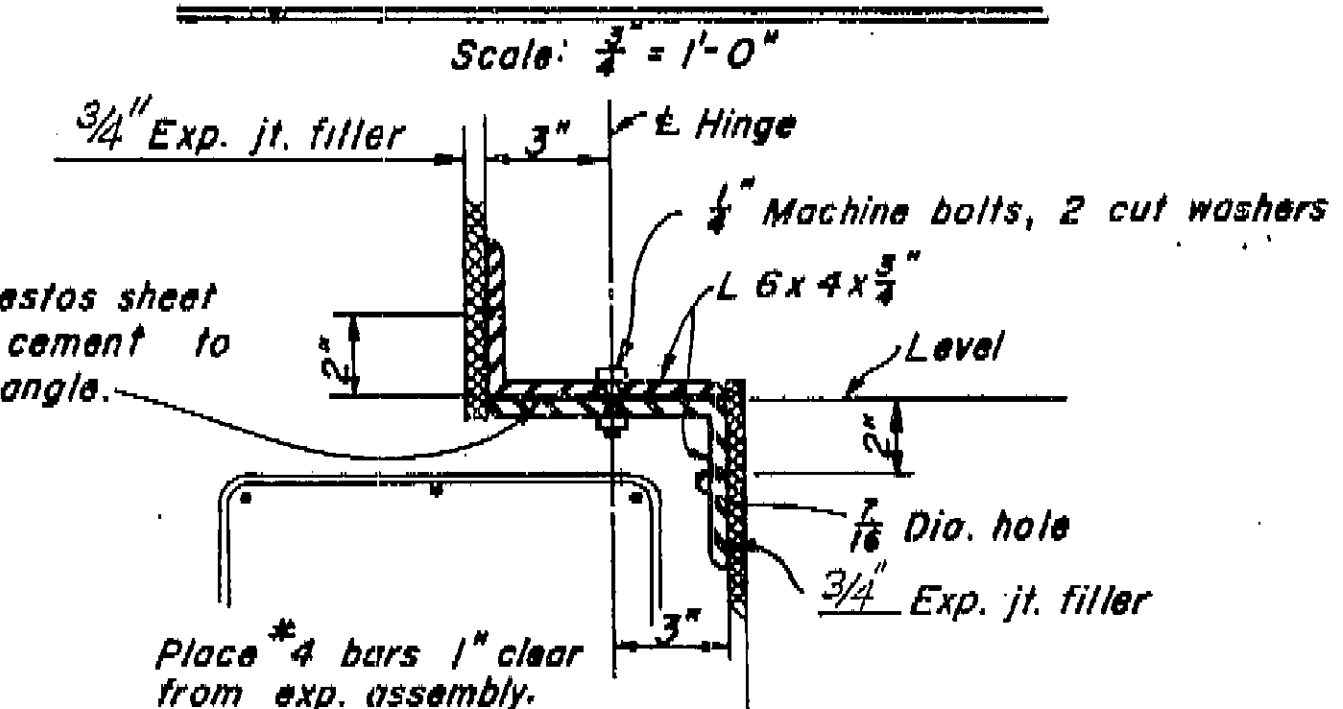


**NOTE**

Bend waterstop into curb on low side. (Split waterstop not to be used in transverse deck joints) 1/2" Exp. jt. filler. Remove sharp corners and burrs from ends of angles and end plates. Galvanize hinge assembly after fabrication.



**TYPICAL EXPANSION HINGE**



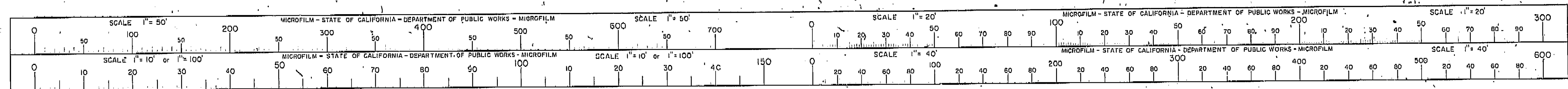
**NOTES**

- FOR HINGE TIE BOLTS NOT SHOWN, SEE "HINGE DETAILS NO. 2"
- FOR HINGE DETAILS NEAR BENTS II & I3 SEE STEEL GIRLER SHEETS

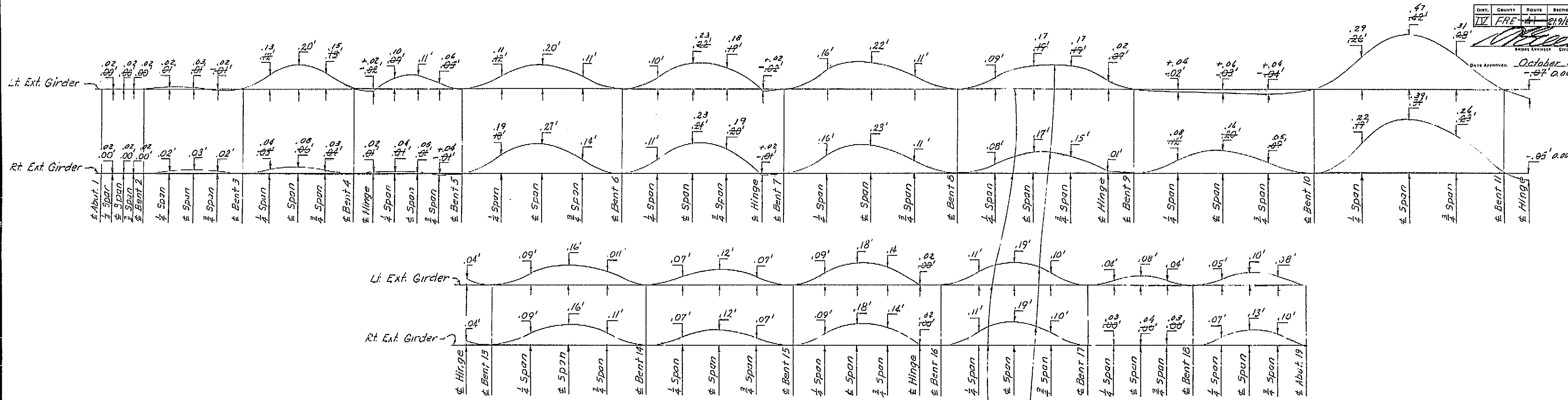
BEARING ASSEMBLYS REQD			
LEFT BRIDGE		RIGHT BRIDGE	
NEAR BENT 4	7	NEAR BENT 4	8
II	II 7 6	II	II 7 7
II	II 9 6	II	II 9 6
II	II 16 7	II	II 16 7
TOTALS	26		28

8/63	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
SOUTH FRESNO VIADUCT	
HINGE DETAILS NO. 1	MODIFIED
BRIDGE NO. 42-226 1/2	DRAWING NO. 42226-35
REVISION DATE	(PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]

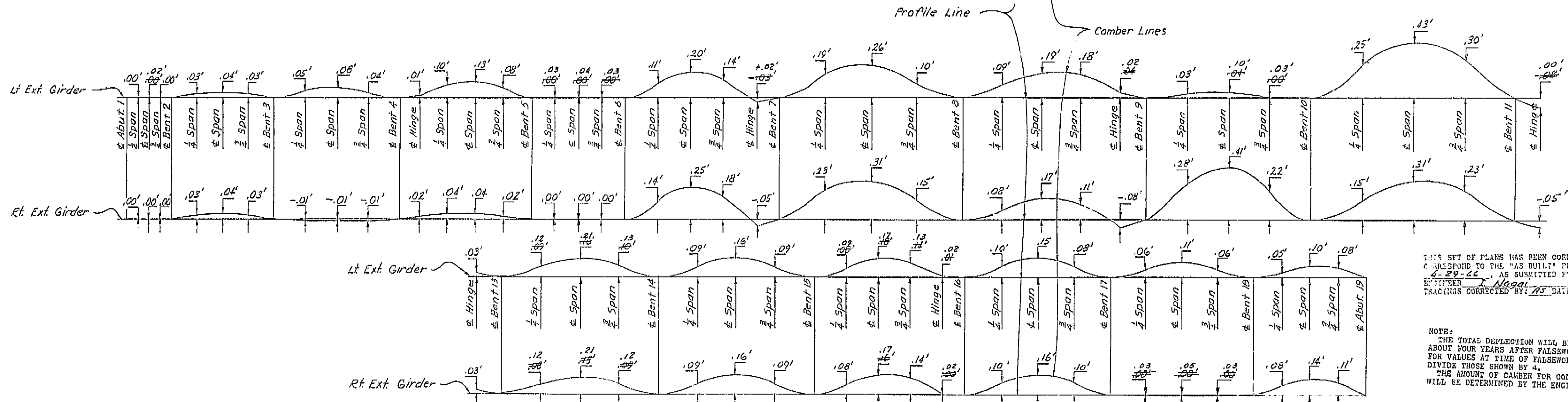






LEFT BRIDGE

Profile Line  
Camber Lines



RIGHT BRIDGE

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

Note:  
Span in span with hinge is midway between hinge and bent.

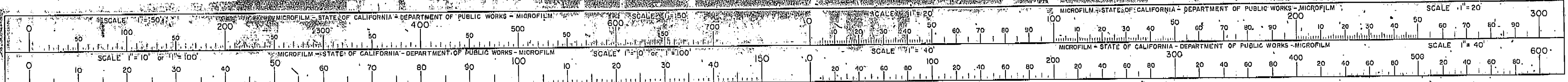
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai.  
TRACINGS CORRECTED BY: [Signature] DATE: 7/7/66

NOTE:  
THE TOTAL DEFLECTION WILL BE REACHED ABOUT FOUR YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL, DIVIDE THOSE SHOWN BY 4.  
THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

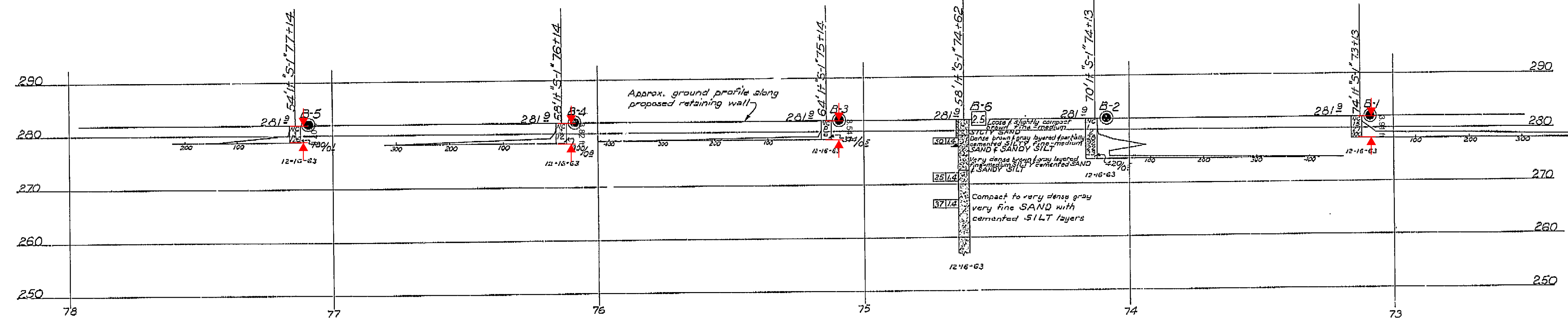
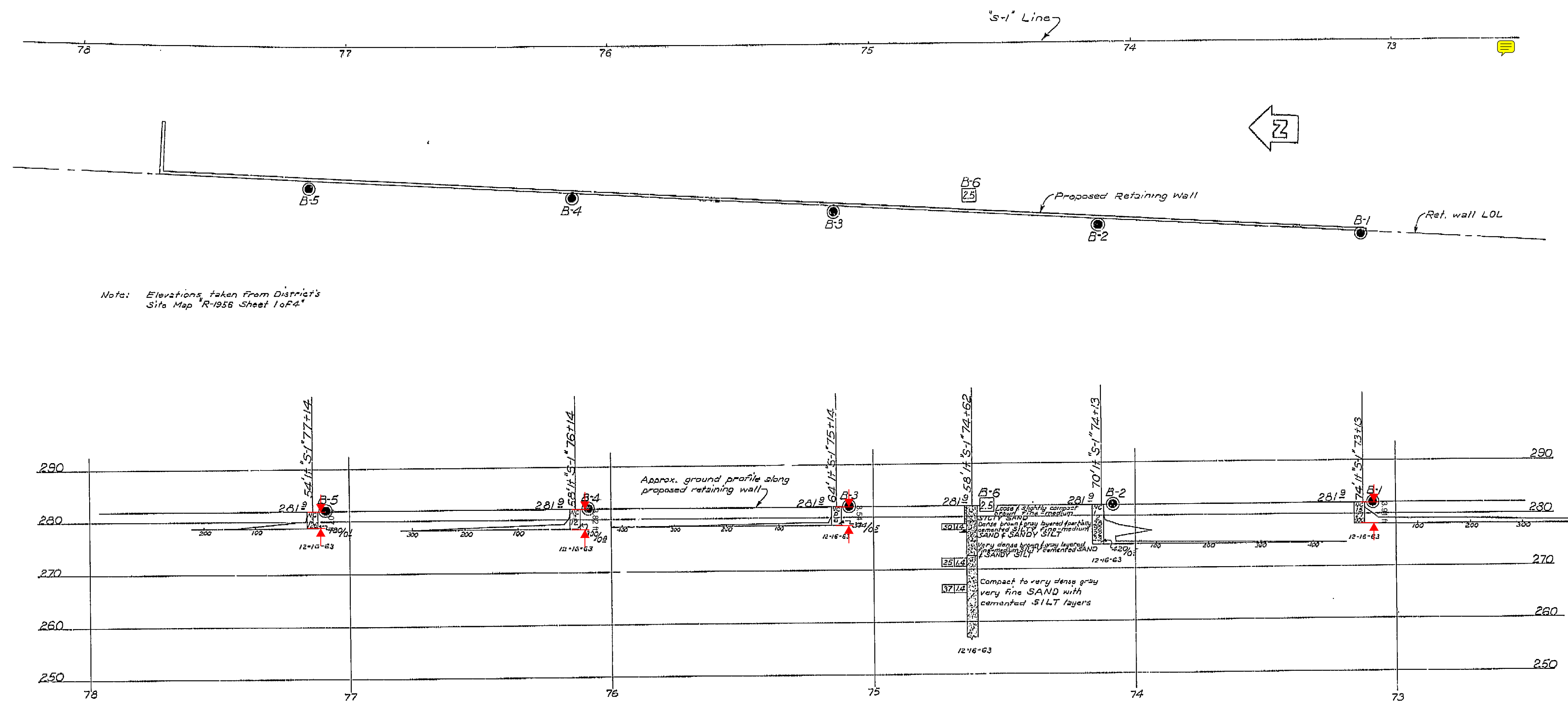
BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	RC Blake
DESIGN	CSH, P.J., Y. LDR
DETAILS	same
QUANTITIES	same

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
CAMBER DIAGRAM	
TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS	
SCALE NONE	BRIDGE 42-226X FILE
DRAWING 42226-68	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE S.D. RUC



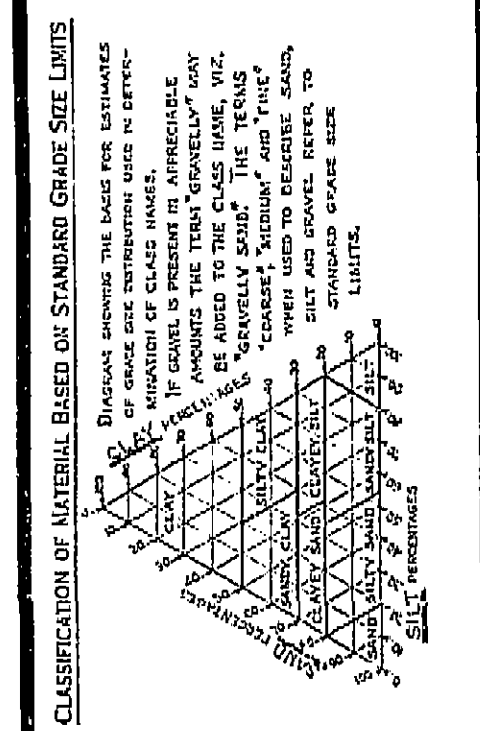




INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

FIELD STUDY BY: *12-63*  
 DRAWN BY: *1-64*  
 CHECKED BY: *1-64*  
 Approved: *12-63*

- LEGEND OF EARTH MATERIALS
- GRAVEL
  - SAND
  - SILT
  - CLAY
  - SANDY CLAY OR CLAYEY SAND
  - SANDY SILT OR SILTY SAND
  - FLY ASH
  - ORGANIC MATERIAL
  - FILL MATERIAL
  - IGNEOUS ROCK
  - SEDIMENTARY ROCK
  - METAMORPHIC ROCK

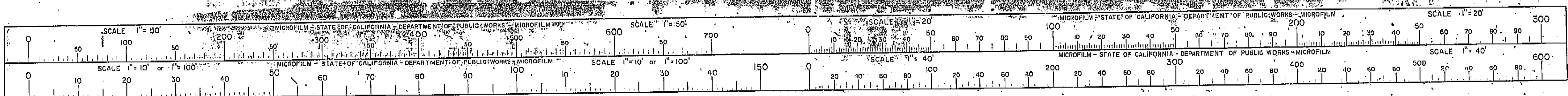


NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

**AS BUILT PLANS**  
 Contract No. *14-014234*  
 Date Completed  
 Document No. *60001078*

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT RETAINING WALL 1			
LOG OF TEST BORINGS 4			
Horizontal Scale: 1"=20'	Vertical Scale: 1"=10'	BRIDGE	FILE
PREL. DRAWING No. PR- <i>1/64</i>		DRAWING <i>42226-88</i>	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE *2-14-72* SIGNATURE *James E. Canty* TITLE *Sr RMC*

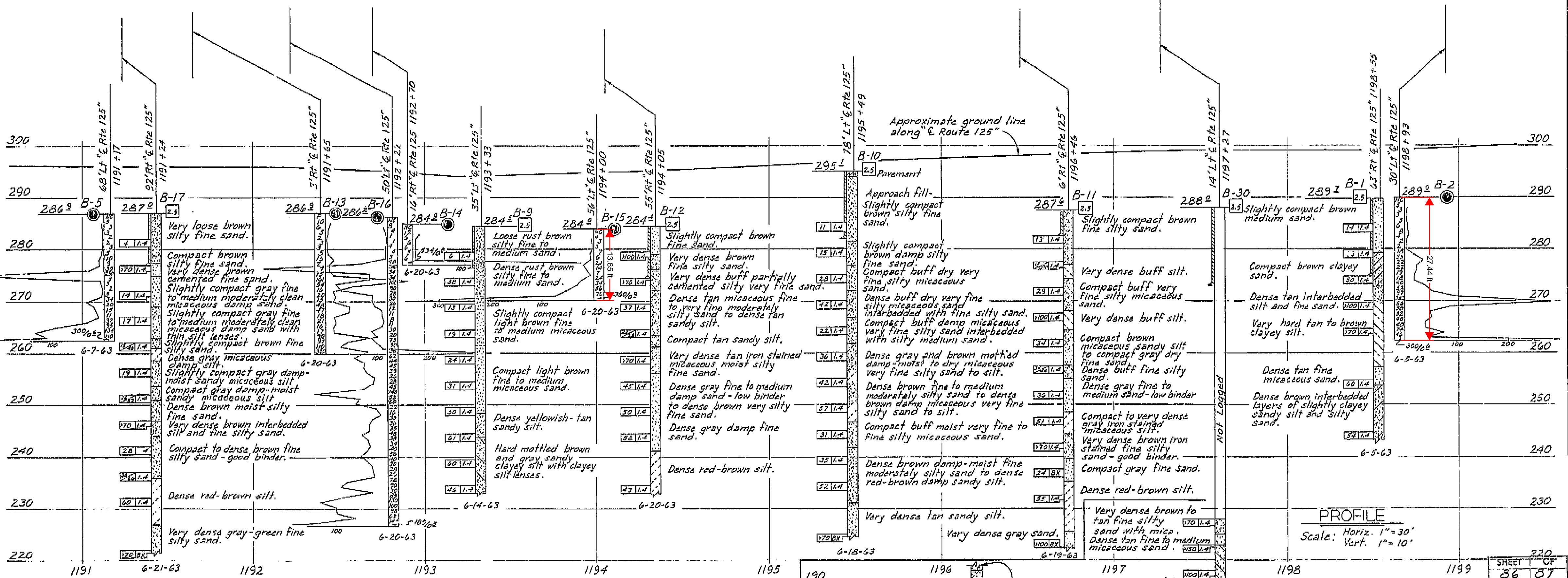




NOTE

For PLAN of these borings see index sheet, Sheet 41 of log of test borings.

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ARE CONTAINED IN FILE IN BRIDGE GEOLOGY SECTION



AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

LOG OF TEST BORINGS 3

SCALE As Noted

BRIDGE 42-226 R/L

FILE

DRAWING 42226-87

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-17-72 SIGNATURE [Signature] TITLE SR. RMC

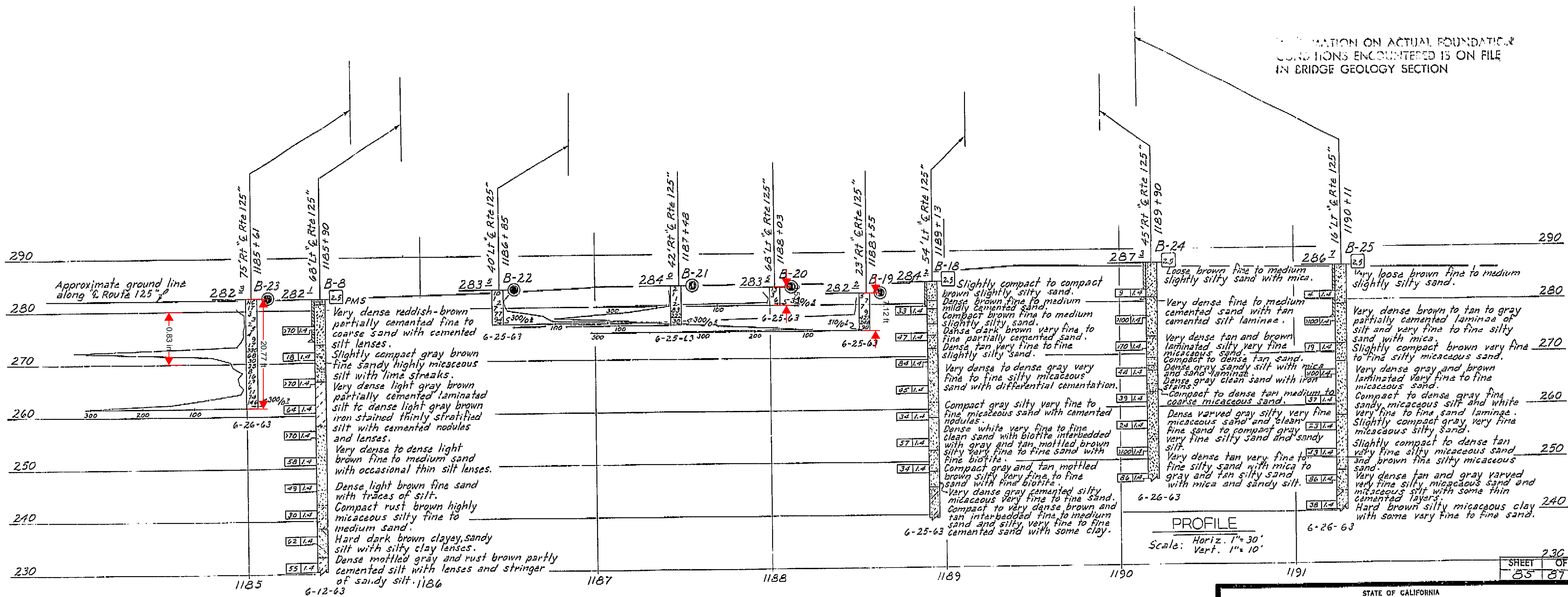




NOTE

For PLAN of these borings see index sheet, Sheet #1 of log of test borings.

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION



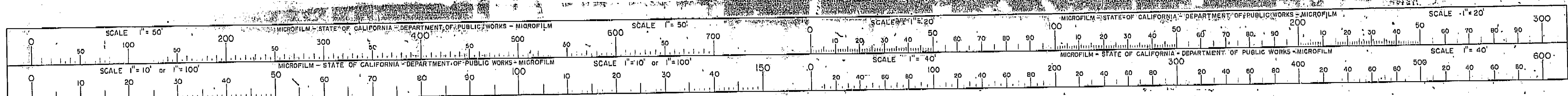
PROFILE  
Scale: Horiz. 1"=30'  
Vert. 1"=10'

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE June, 1963

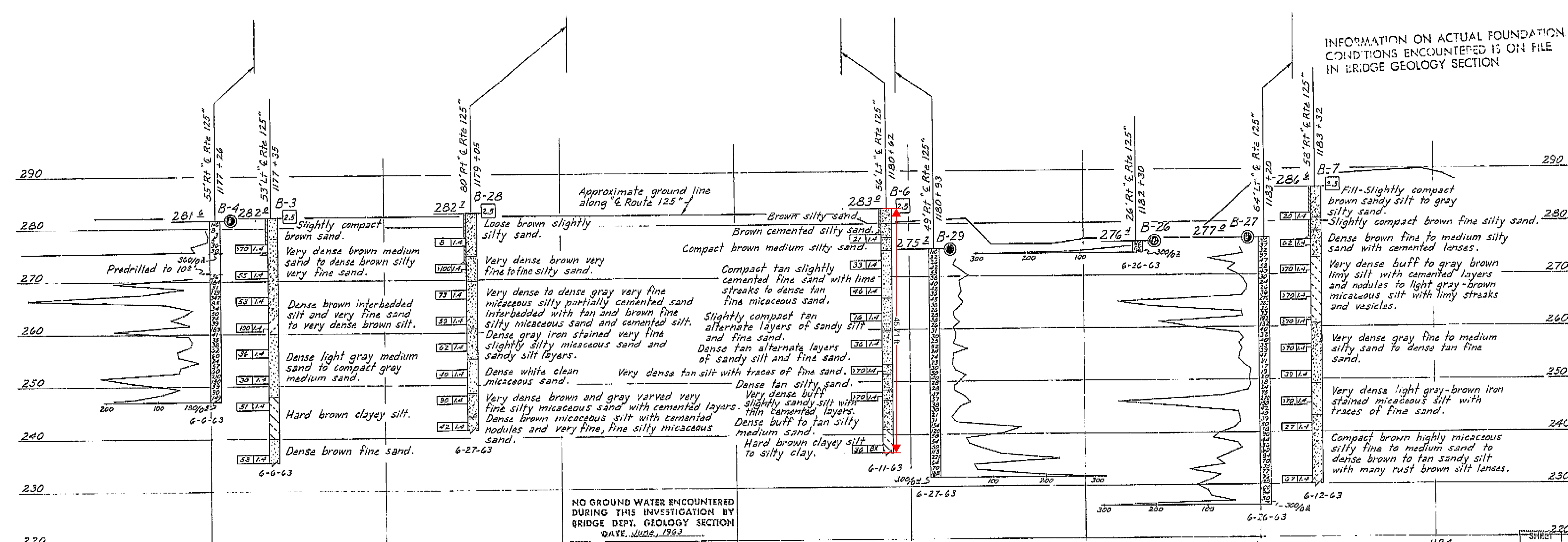
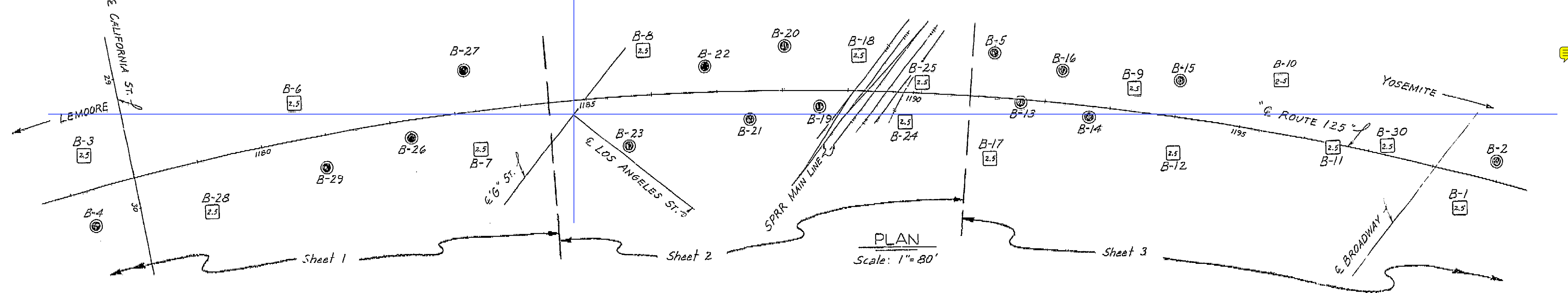
AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS  
SOUTH FRESNO VIADUCT  
LOG OF TEST BORINGS 2  
Scale As Noted Bridge 42-226 1/2 File Drawing 42226-B1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE [Signature] TITLE [Title]







INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

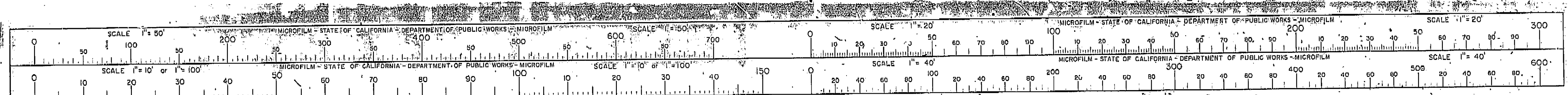
NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE, June, 1963

BM	Description	Elev.
B-38	Br Disc cemented in N. curb @ W. end Calif. Ave Bridge	283.89
#118 88	RR Spike in Guy PP 152± Rt. Sta. 1188+84± on E. side RR Tracks	287.64
Fre-39	CHC Disc 125' Lt. Sta 1195+10 E. Route 125	298.01

AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS  
SOUTH FRESNO VIADUCT  
LOG OF TEST BORINGS 1  
SCALE As Noted BRIDGE 42-236 5% FILE DRAWING 42226-86  
PREL. DRAWING NO. PR-42226-86

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-77 SIGNATURE [Signature] TITLE S/R R/M/C

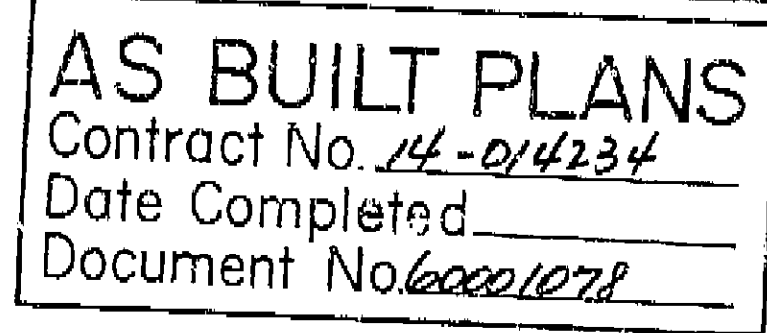




ASSISTANT STATE HIGHWAY ENGINEER CIVIL ENGINEER—LICENSED, S.B.E.  
DATE APPROVED October 5, 1964

R+Q. A!

24 22.1



THIS SET OF PLANS HAS BEEN CORRECTED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4-29-66, AS SUBMITTED BY RESIDENT  
ENGINEER J. Nagai  
TRACINGS CORRECTED BY: AES DATE: 7/6/66

For Approximate Quantities see "Index To Plans" sheet.

2. CONST.  
 $R = 4000'$   
 $\Delta = 57^\circ 17' 35''$   
 $L = 3999.81'$   
 $T = 2185.09'$

FOUNDATION DATA

Abut. 1	---	16" C.I.D.H. piles	Specified tip elev. 265.0
Bent 2	---	Footings 2.5 tons/s.f.	
Bents 3 to 18.	---	5" C.I.D.H. piles	Specified tip elev., see "Bent Columns" sheets
Abut. 19	---	16" C.I.D.H. piles	Specified tip elev. 260.0
Retaining Wall 1	---	Footings 2.5 tons/s.f.	
Retaining Wall 2	---	16" C.I.D.H. piles	Specified tip elev. 260.0
Retaining Wall 3	---	16" C.I.D.H. piles	Specified tip elev. 260.0

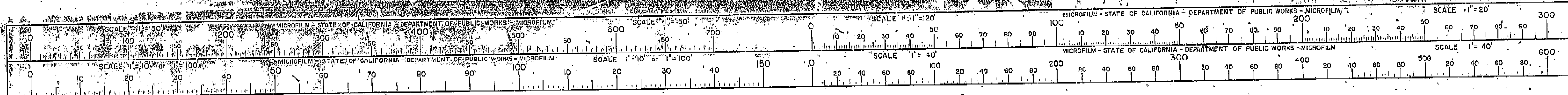
FOR GENERAL NOTES SEE "Index to Plans" sheet

LIVE LOADING H20-516-44 AND ALTERNATIVE

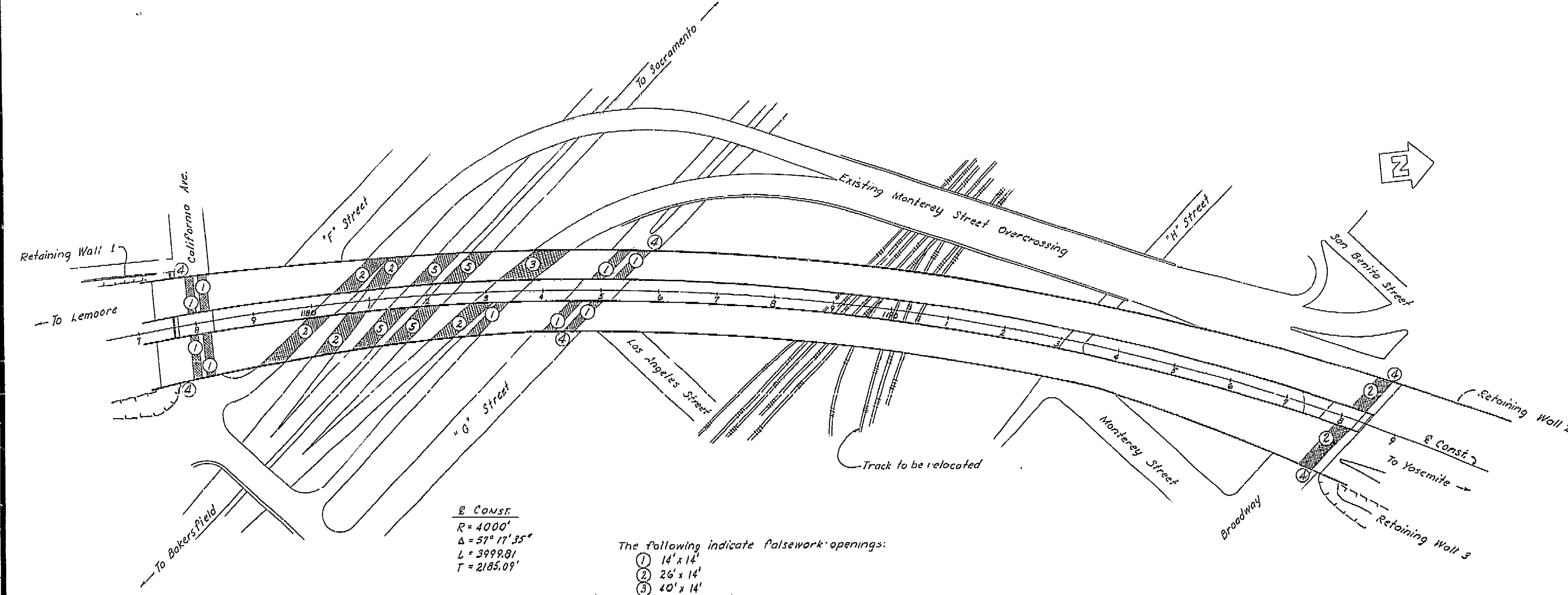
BRIDGE DEPARTMENT		STATE OF CALIFORNIA	
DESIGN SECTION		DEPARTMENT OF PUBLIC WORKS	
Section Supervisor: <u>Robert C. Blake</u>		DIVISION OF HIGHWAYS	
Project Designer: <u>Bruce J. Farnsworth</u>			
<b>15</b>		<b>14-014234</b>	
		<b>SOUTH FRESNO VIADUCT</b>	
		LOCATED IN THE CITY OF FRESNO FROM CALIFORNIA AVENUE TO BROADWAY IN FRESNO COUNTY	
		<b>GENERAL PLAN</b>	
Scale 1" = 100'		Bridge 42-226 R/L FILE	
Drawing 42226-1			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. Gault TITLE Sgt. RMC







E CONST.  
 $R = 4000'$   
 $\Delta = 57^\circ 11' 35''$   
 $L = 3999.81'$   
 $T = 2185.09'$

The following indicate falsework openings:

- ① 14' x 14'
- ② 26' x 14'
- ③ 40' x 14'
- ④ 6' wide x 1' high pedestrian openings
- ⑤ 36' x 14'

Openings indicated are minimum, and are measured normal to the traveled way.

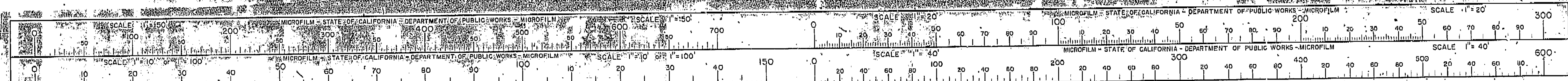
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1-27-66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai.  
 CHANGES CORRECTED BY AL DATE 2/16/66

**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed             
 Document No. 60001078

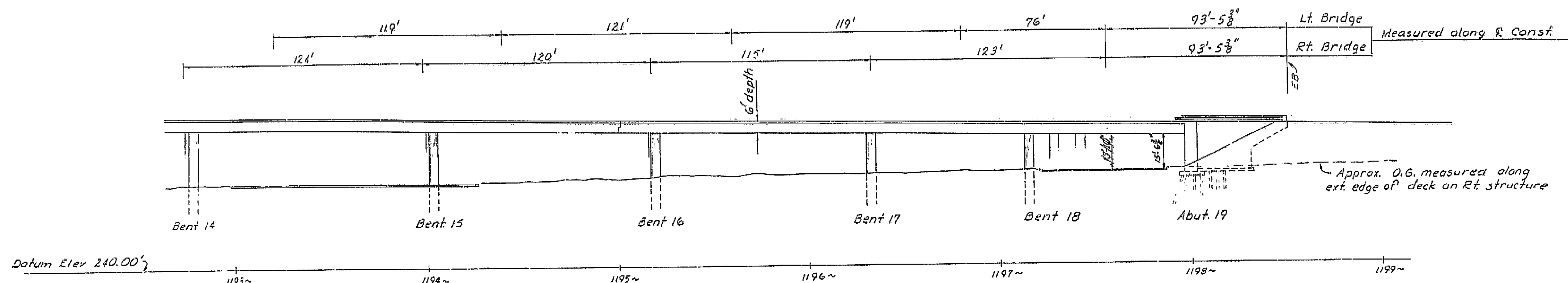
BRIDGE DEPARTMENT	
<b>DESIGN SECTION 15</b>	
Section Supervisor	<u>R. E. Blum</u>
DESIGN	By <u>          </u>
Checked	<u>          </u>
DETAILS	By <u>          </u>
Checked	<u>          </u>
QUANTITIES	By <u>          </u>
Checked	<u>          </u>

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
FALSEWORK OPENING LAYOUT			
SCALE 1"=100'	BRIDGE 42-226	FILE	DRAWING 42226-5
PRELIMINARY DRAWING No. <u>P-</u>		REVISION DATES	

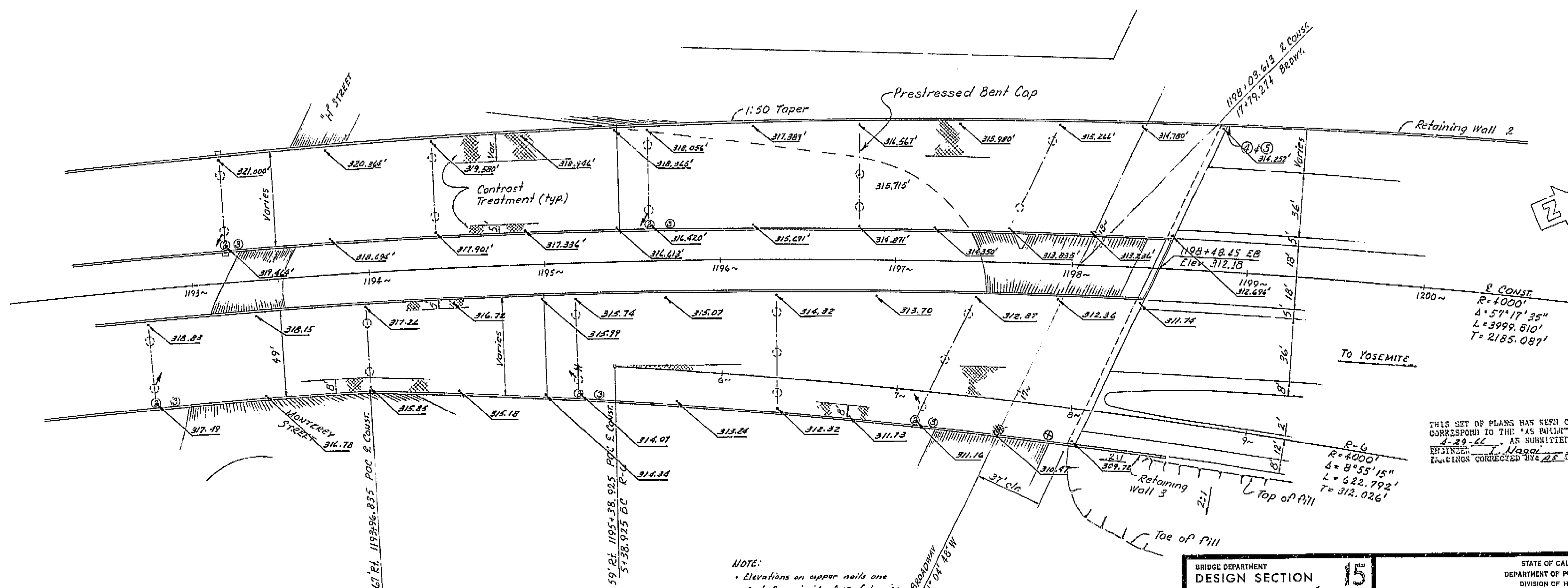
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE James E. Cantrell TITLE Sr. RMC







ELEVATION



PLAN

**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed \_\_\_\_\_  
 Document No. 60001878

**NOTE:**

Elevations on upper rails are  
 feet from inside face of barrier  
 rail.

**NOTE:**

- ① Denotes location of minimum vertical clearance.
- ② Denotes location of Deck Drains
- ③ Denotes direction of out-let in columns.
- ④ Denotes location of Scuppers.
- ⑤ Denotes location of painting "South Fresno Viaduct."
- ⑥ Denotes location of painting Br. No. & year constructed.

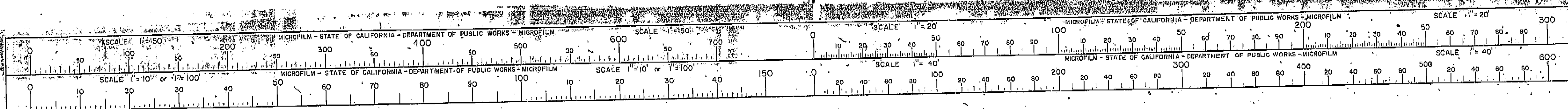
BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R. C. Blake
DESIGN	By: [Signature] 1-64
DETAILS	By: [Signature] 7-63
QUANTITIES	By: [Signature] 1-64

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

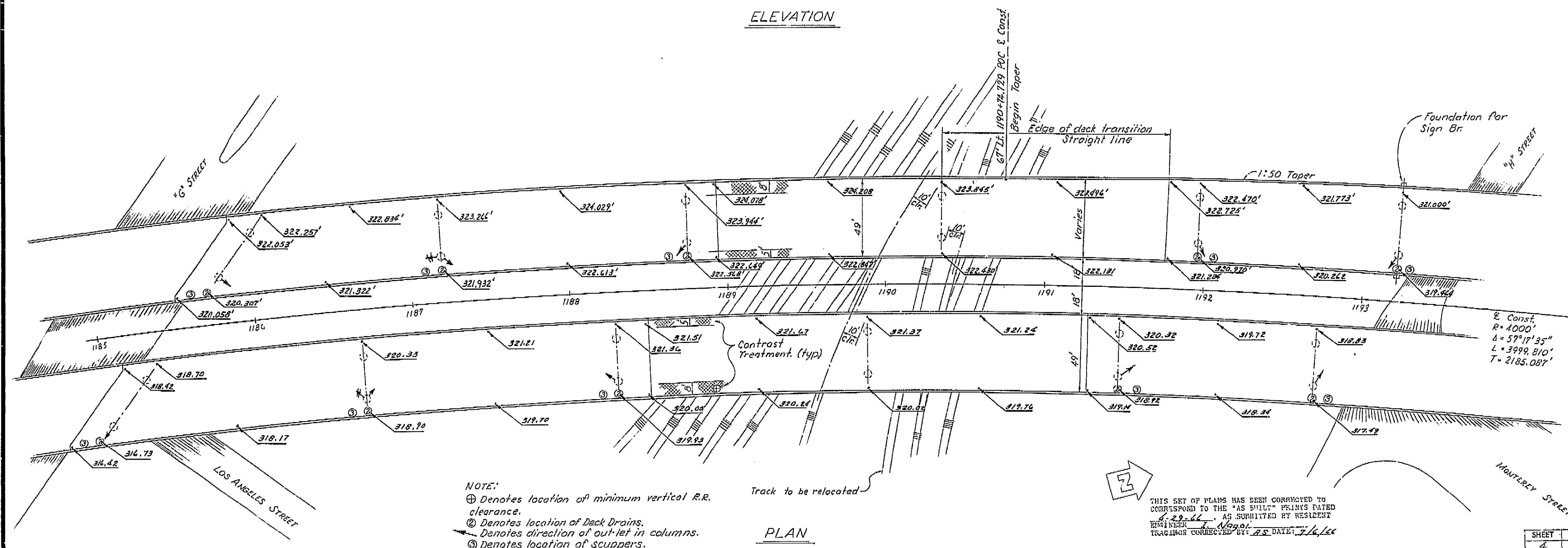
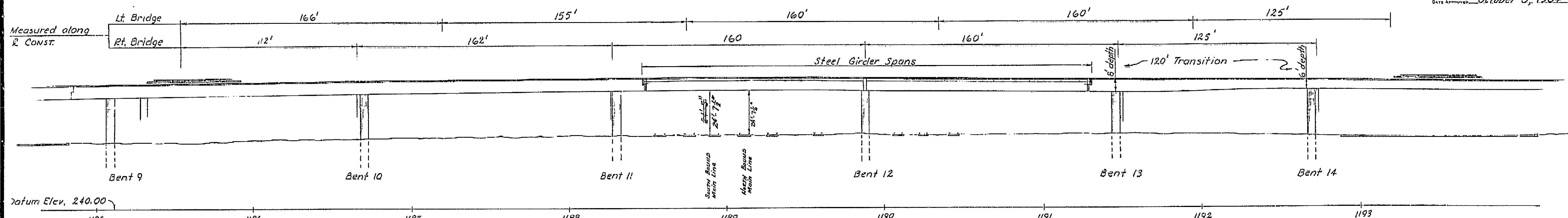
**SOUTH FRESNO VIADUCT**  
**STRUCTURE PLAN 3**

SCALE 1"=30' BRIDGE 42-266 FILE DRAWING 42226-9  
 PREL. DRAWING NO. P- [ ]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
 UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
 AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-77 SIGNATURE [Signature] TITLE Sr. RMC







**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

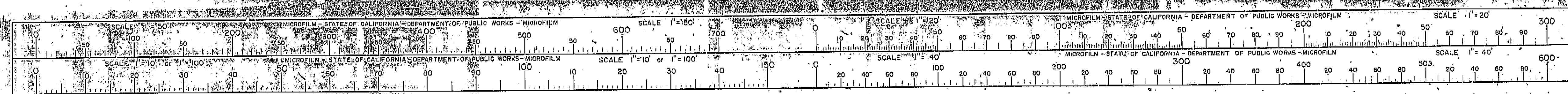
NOTE:  
 Elevations on copper nails  
 one foot from inside face  
 barrier rail.

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.C. Blake
DESIGN	By: Herman A. Shanks 7-63 Checked: D.R. Moore 1-64
DETAILS	By: MIZUTANI 7-63 Checked: D.R. Moore 1-64
QUANTITIES	By: _____ Checked: _____

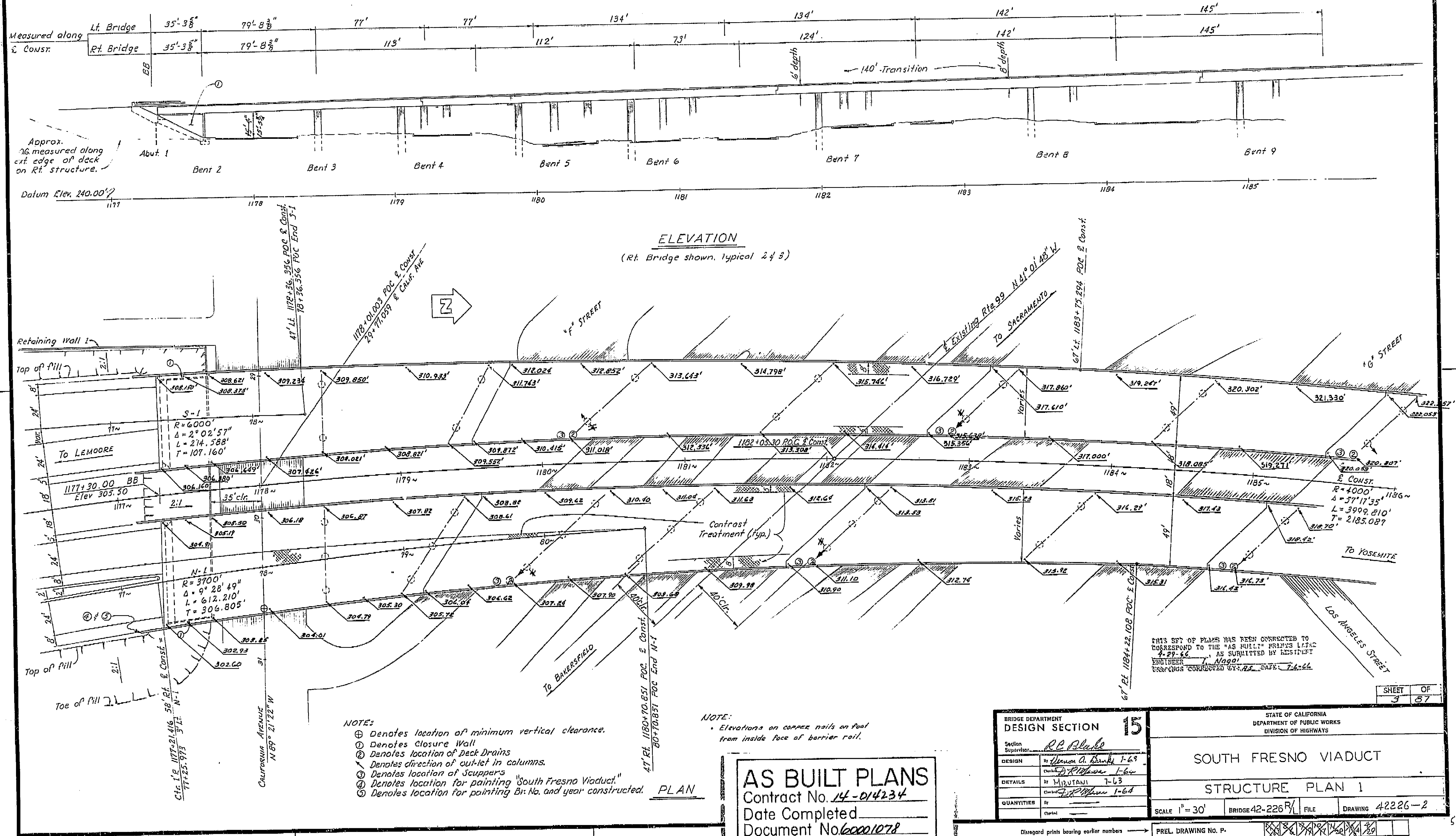
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
STRUCTURE PLAN 2	
SCALE 1" = 30'	BRIDGE 42-226 FILE
DRAWING 42226-3	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 3-14-72 SIGNATURE [Signature] TITLE SR RMC

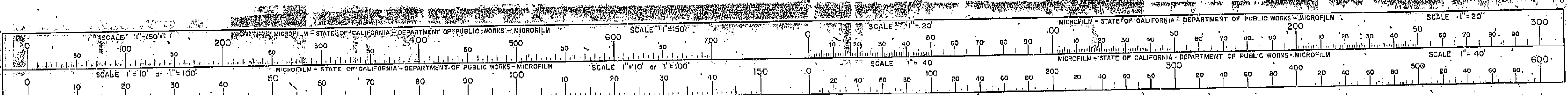






I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE S.R. RMC





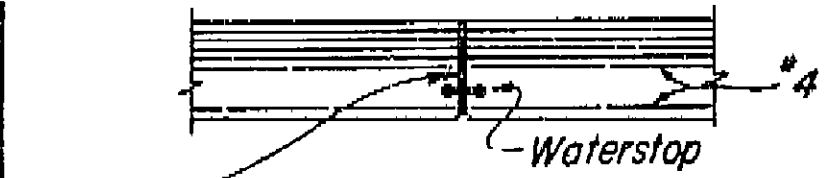
Optional Key 3-51  
Stem as constructed  
Offset as follows:  
H 4=1/4" H 18=1 1/2"  
H 6=3/8" H 20=1 3/4"  
H 8=1/2" H 22=2"  
H 10=5/8" H 24=2 1/4"  
H 12=3/4" H 26 thru  
H 14=1" H 36=2 1/2"  
H 16=1 1/4"  
APPROX. WALL OFFSET VALUES  
Not required for wall types 3 and 4  
Values for offsetting forms to be determined by the Engineer.  
PLAN OF WALL WITH DETAIL W-1  
1/2" Expansion joint filler  
PLAN OF WALL WITH EXPANSION JOINT ONLY  
FOOTING STEP  
PLAN  
PLAN  
PLAN  
ELEVATION  
ELEVATION  
ELEVATION  
ELEVATION  
RETURN WALL TYPE 'A'  
RETURN WALL TYPE 'B'  
RETURN WALL TYPE 'C'  
RETURN WALL TYPE 'D'

Vertical layout line  
Offset as follows:  
H 4=1/4" H 18=1 1/2"  
H 6=3/8" H 20=1 3/4"  
H 8=1/2" H 22=2"  
H 10=5/8" H 24=2 1/4"  
H 12=3/4" H 26 thru  
H 14=1" H 36=2 1/2"  
H 16=1 1/4"

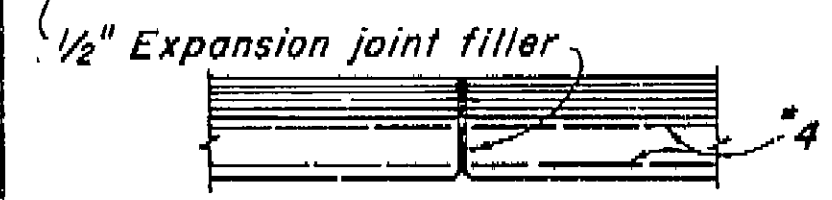
### APPROX. WALL OFFSET VALUES

Not required for wall types 3 and 4

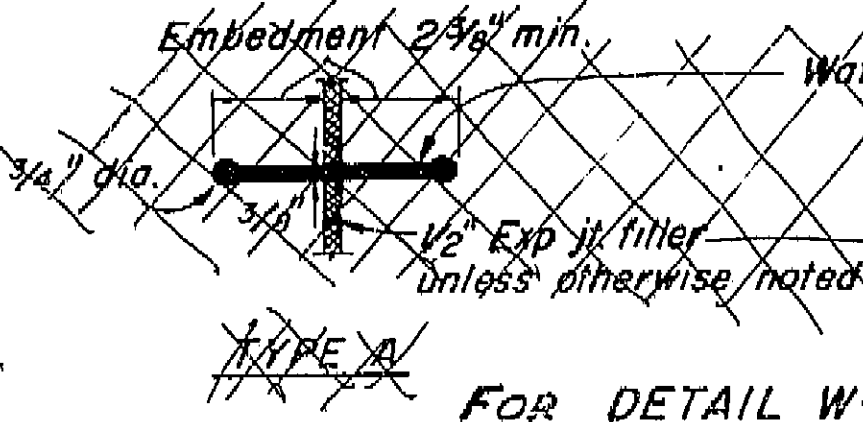
Values for offsetting forms to be determined by the Engineer.



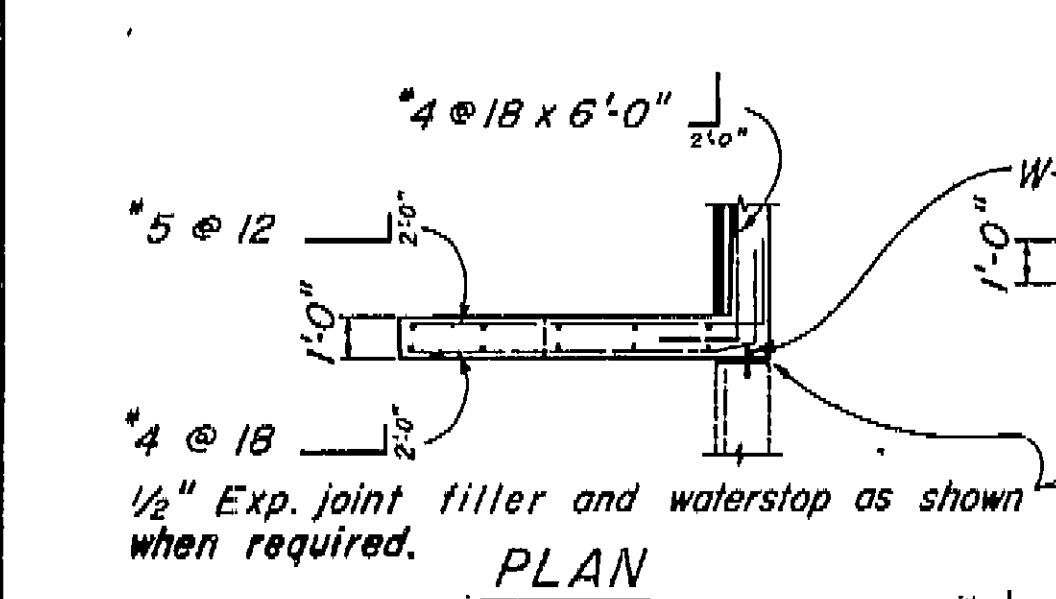
PLAN OF WALL WITH DETAIL W-1



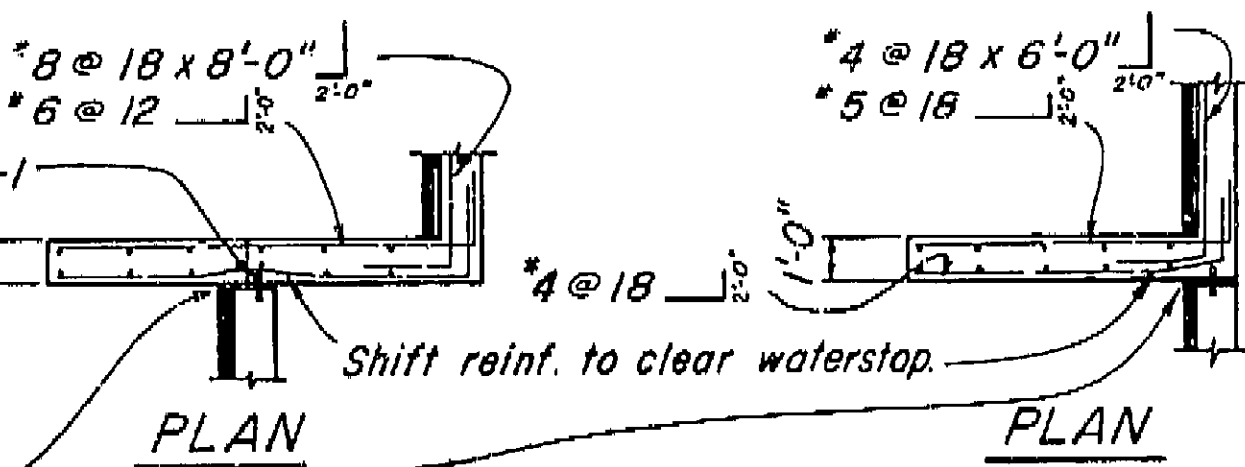
PLAN OF WALL WITH EXPANSION JOINT ONLY



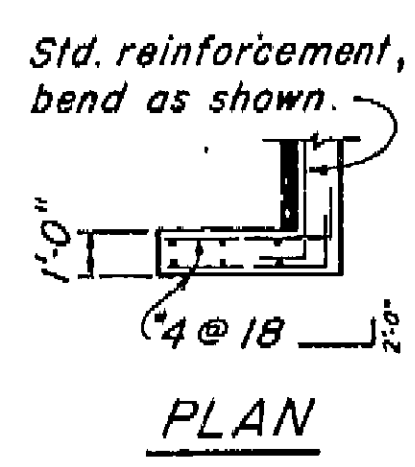
FOOTING STEP



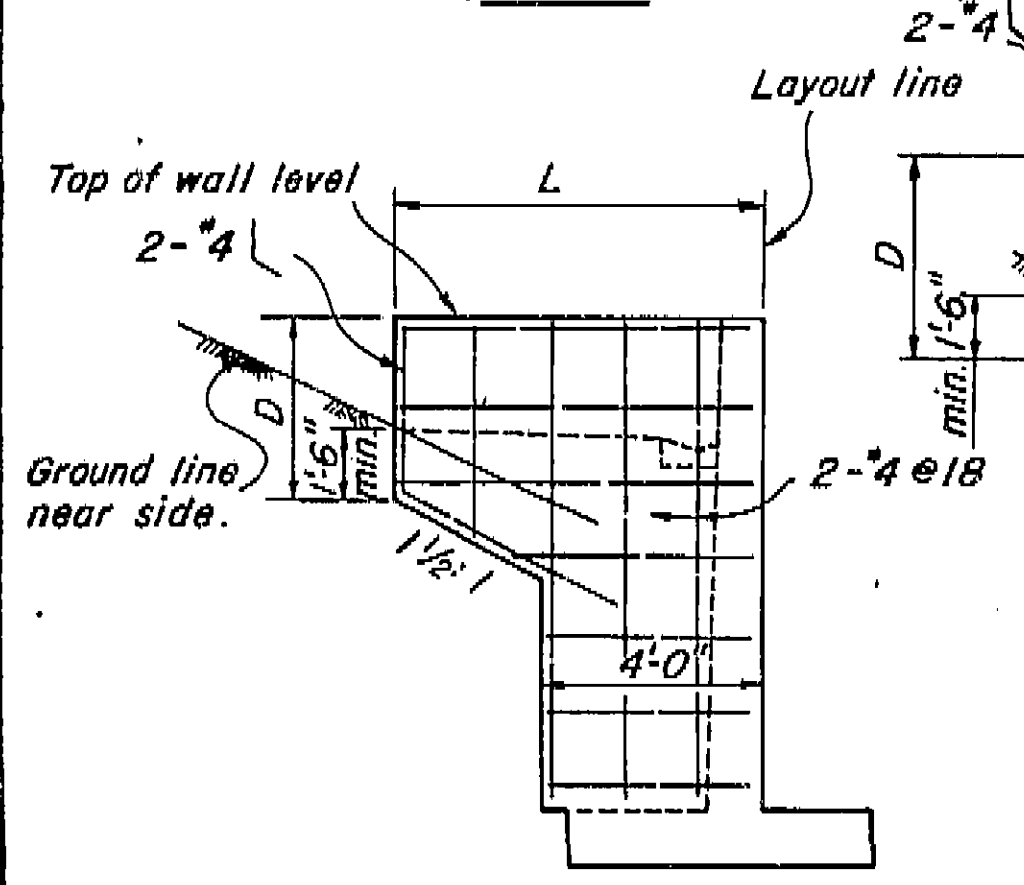
PLAN



PLAN

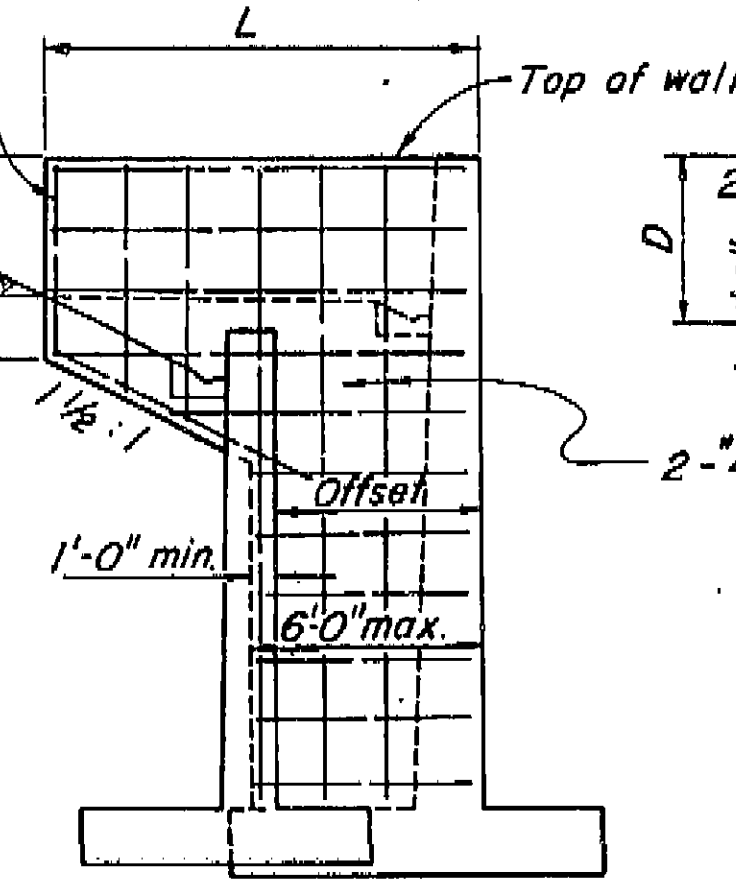


PLAN



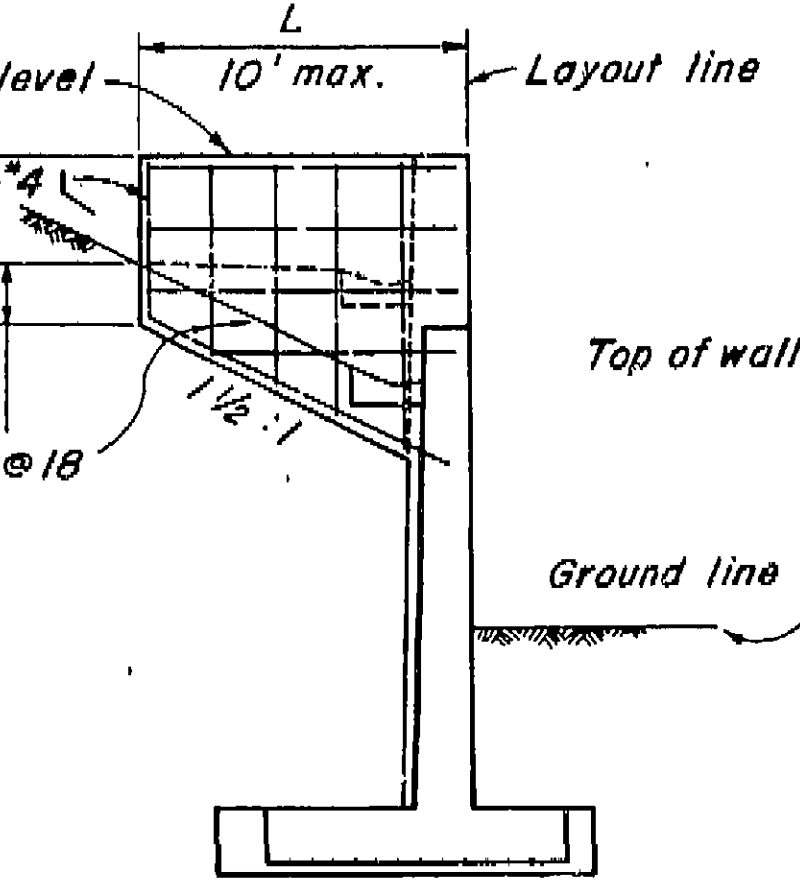
ELEVATION  
RETURN WALL TYPE 'A'

Use where H = or less



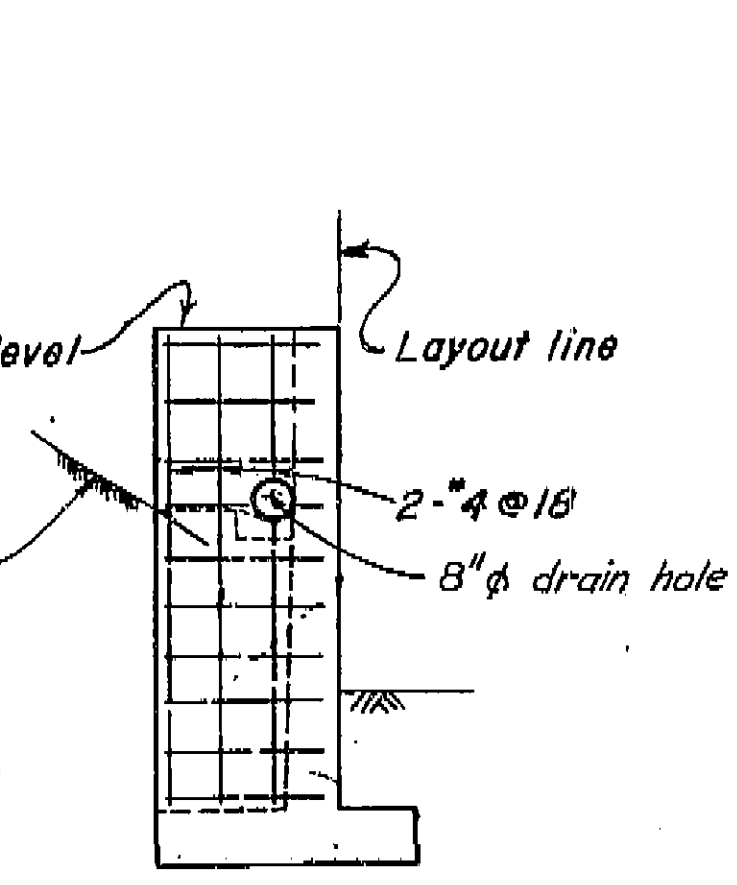
ELEVATION  
RETURN WALL TYPE 'B'

Use where H = 10' or more on offset walls



ELEVATION  
RETURN WALL TYPE 'C'

Use where H = 10' or more on straight walls



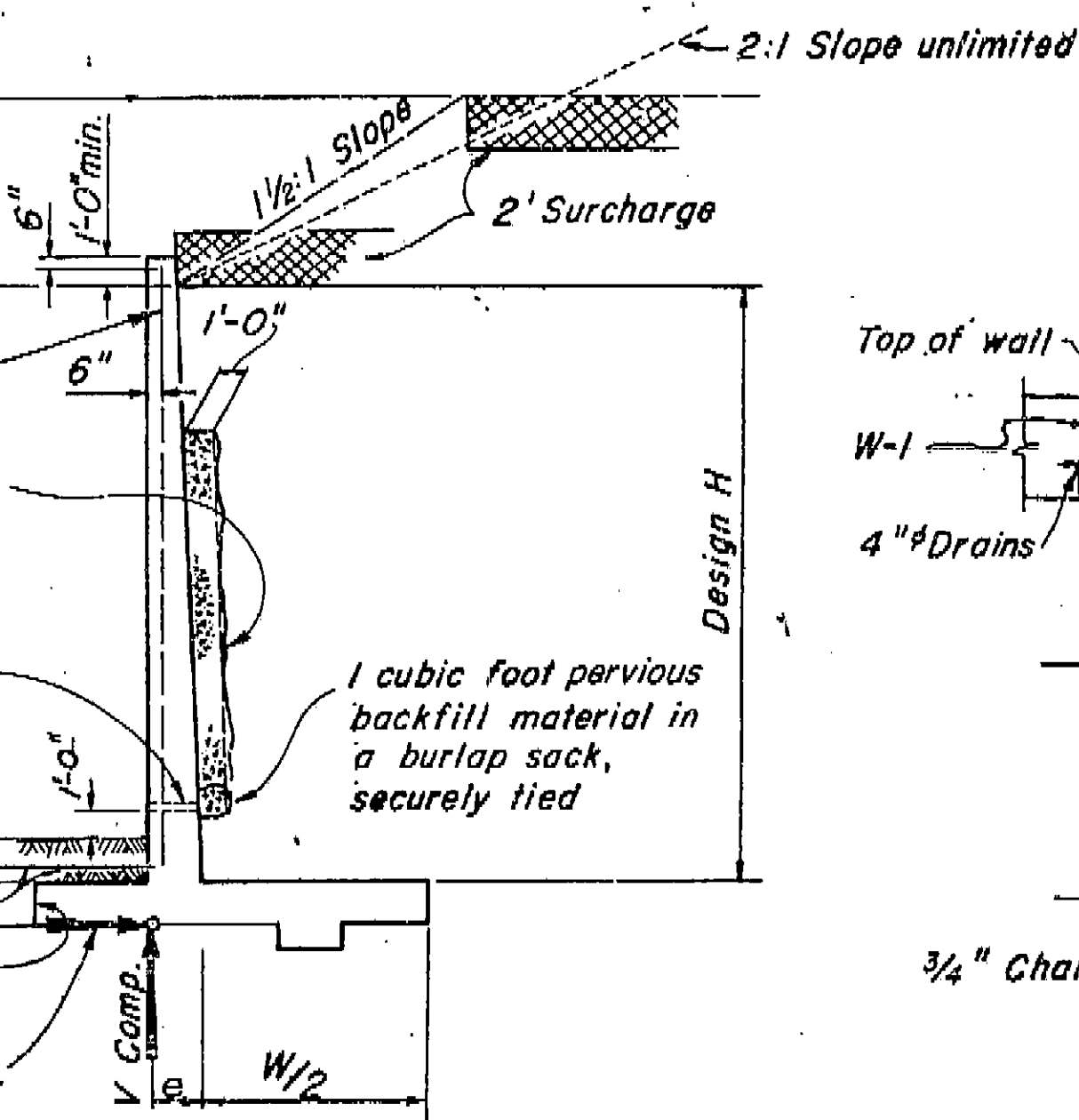
ELEVATION  
RETURN WALL TYPE 'D'

FOR DETAIL W-1 SEE BOX GIRDER DETAILS NO. 1 SHEET  
Place waterstop as shown when required.

Pervious backfill material continuous behind wall  
(See other sheets for limits.)

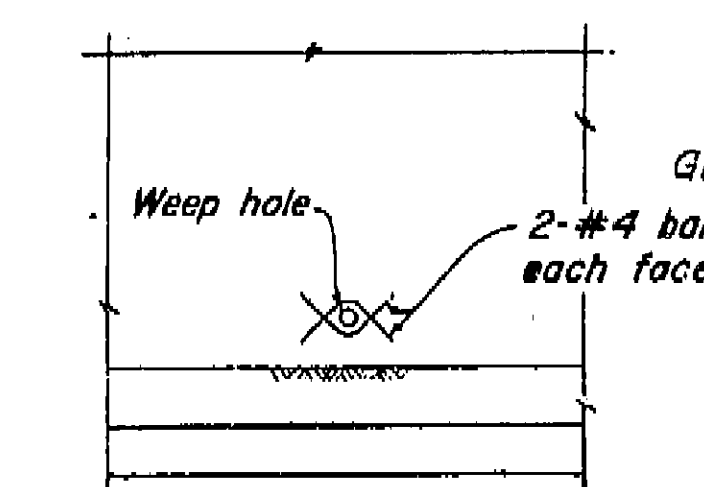
4" drains @ 15' ctrs. max. (9' ctrs. for Type 3 & 4 Ret. Walls), to discharge through contemplated curb or 1' above outside ground surface. Slope 1/2" per foot. Backfill sufficiently to prevent ponding. To be done after removal of wall forms and before backfilling behind wall.

Place concrete in toe against undisturbed material, except as permitted by the Engineer.

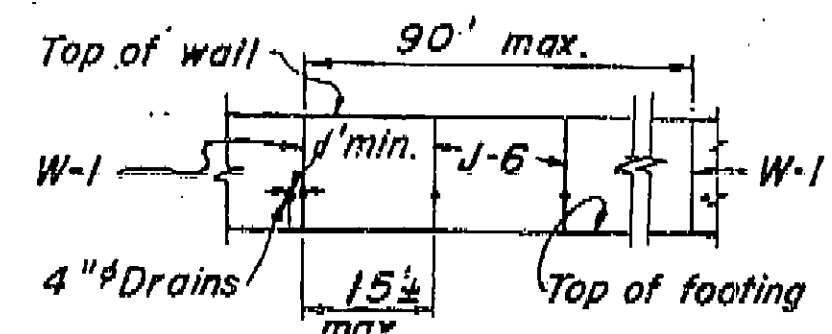


### DESIGN AND DRAINAGE

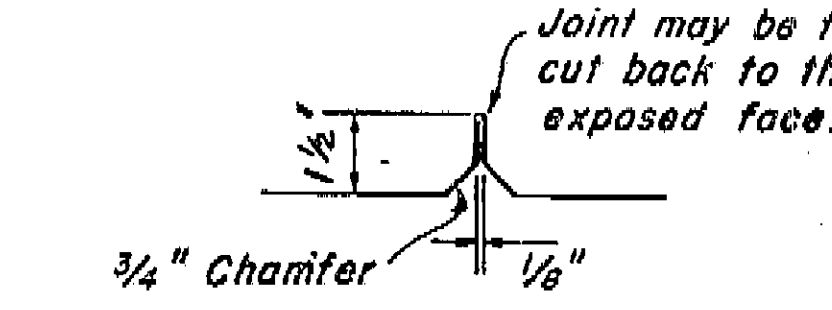
Surcharge limits shown apply to Retaining walls Type 1 and 3.



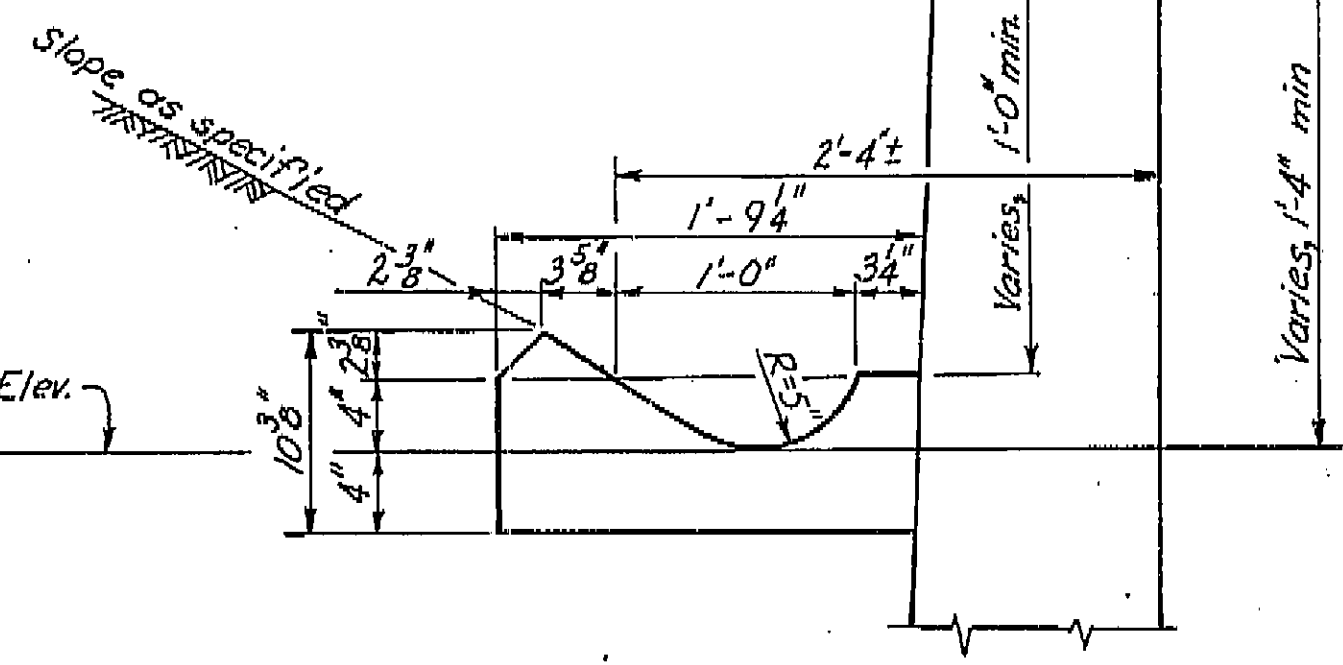
DRAIN REINF. DETAIL



ELEVATION



PLAN  
DETAIL J-6



TYPICAL GUTTER DETAIL

Scale: 1 1/2" = 1'-0"

### NOTES

#### Design Conditions:

Design H may be exceeded by 6" before going to the next size.  
Footing key is required except when found unnecessary by the Engineer.  
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.  
Return wall not required unless shown elsewhere.

#### Design Data:

$f_c = 1200 \text{ psi}$   $f_t = 3000 \text{ psi}$   $f_s = 20,000 \text{ psi}$   $n = 10$  earth = 120 pcf  
Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.  
27 pcf min. for determination of heel pressure.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/64 AS SUBMITTED BY RESIDENT ENGINEER, NAGAI.  
TRACINGS CORRECTED BY: AT DATE: 7/2/64

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

8/63

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

MODIFIED RETAINING WALL DETAILS NO. 1

BRIDGE NO. 42-226 R/L DRAWING NO. 42226-32

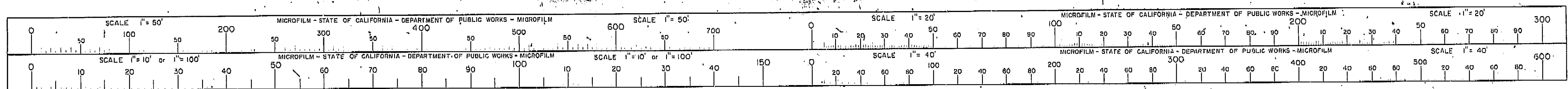
REVISION DATES PRELIMINARY STAGE ONLY

W.O.

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

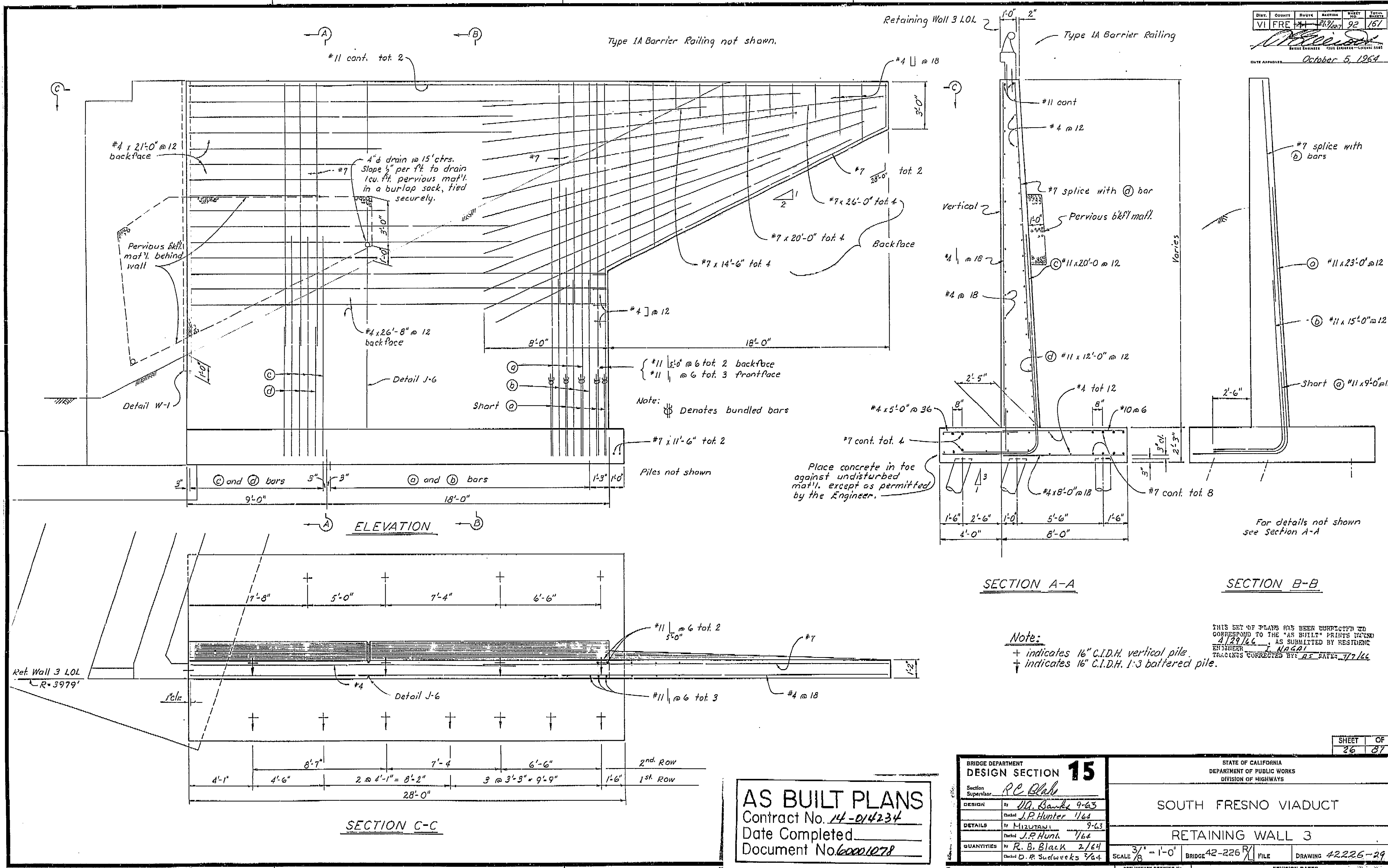
DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]





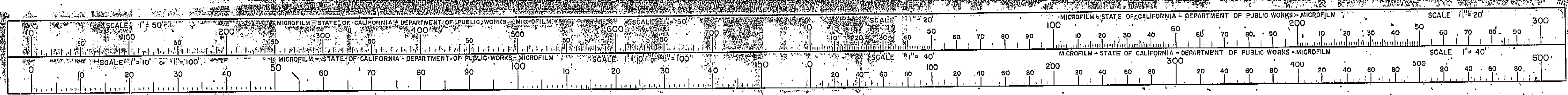






I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE S2 RMC





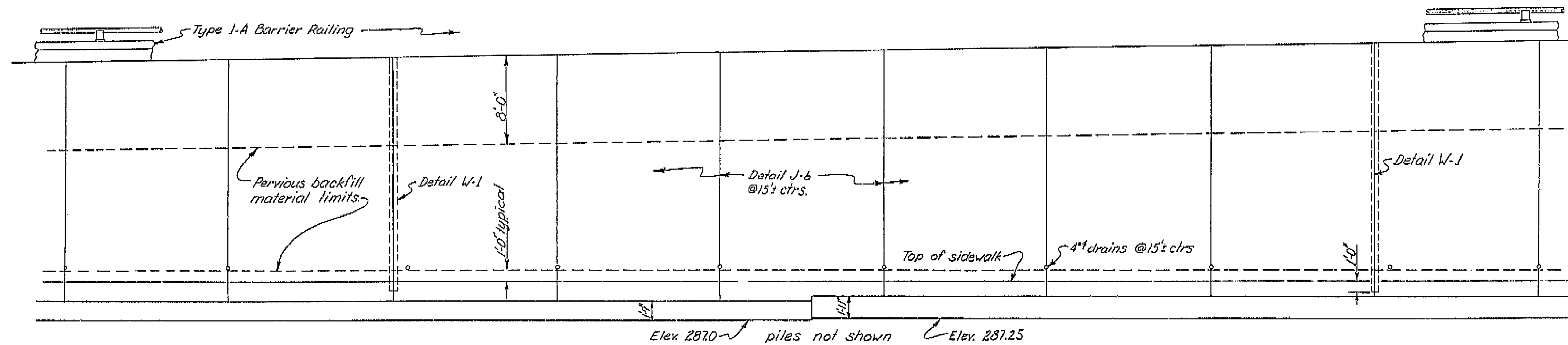
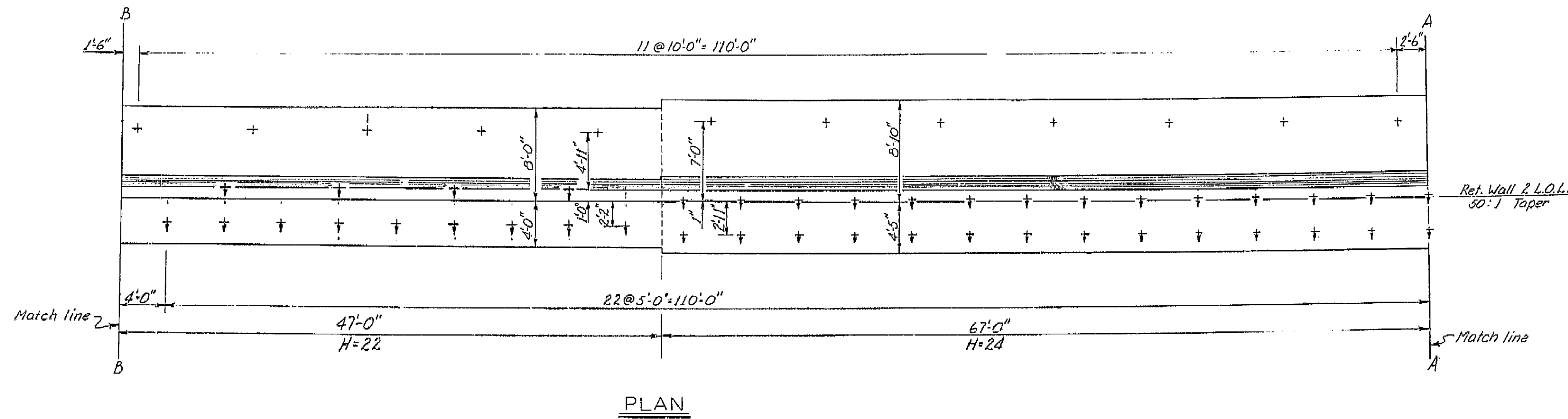




FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	25/227	90	167

DATE APPROVED *October 5, 1964*



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER *J. Nagan*. TRACINGS CORRECTED BY: *AS* DATE: 7/2/66

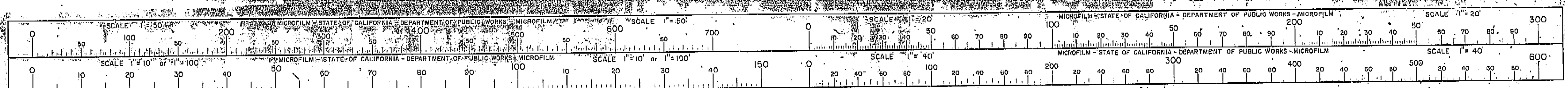
Note: For notes see "Ret. Wall 2 (1 of 3)"

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	<i>R. B. Black</i>
DESIGN	By <i>Norman A. Banks 2-64</i>
DETAILS	By <i>R. B. Black 2-64</i>
QUANTITIES	By <i>R. B. Black 2-64</i>
	Checked <i>D. Sudweeks 2/64</i>

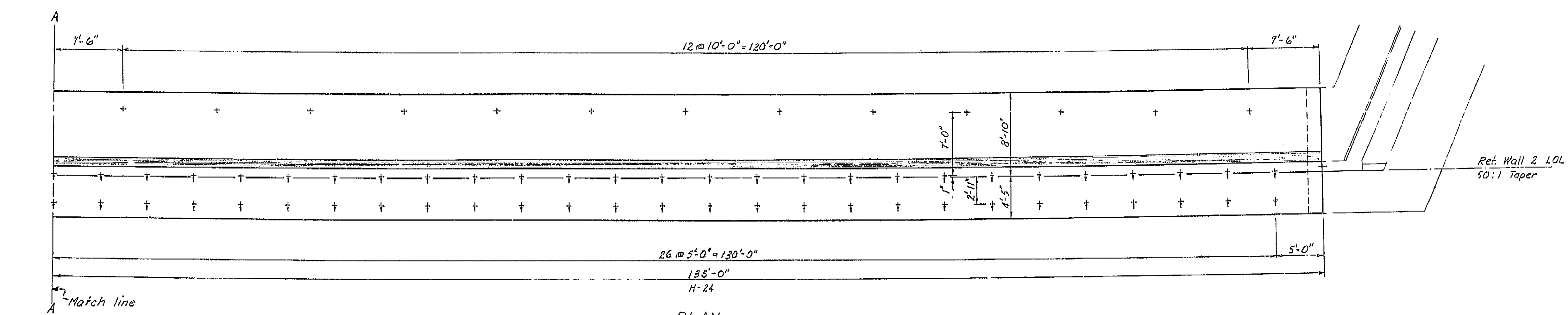
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
RETAINING WALL 2 (2 of 3)			
SCALE 3/8" = 1'-0"	BRIDGE 42-226 2	FILE	DRAWING 42226-77
PRELIMINARY DRAWING NO. <i>P. 16/64</i>		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE *James E. Cantile* TITLE *Sr. RMC*

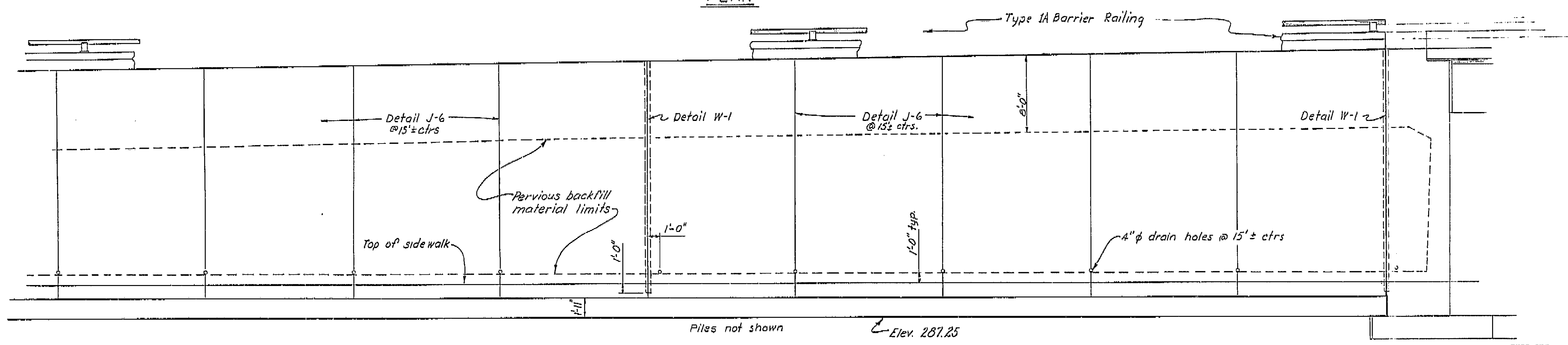




7



PLAN



ELEVATION

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINT DATED 8/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI. TRACINGS CORRECTED BY: AS DATE: 7/7/66

Note: For reinforcement and details see:  
 "TYPE 1 RETAINING WALL (H=4'-30')"  
 "RETAINING WALL DETAILS No. 1"  
 + indicates 16" C.I.D.H. vertical pile.  
 + indicates 16" C.I.D.H. 1:3 battered pile.

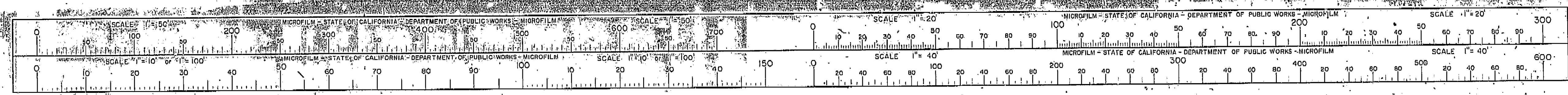
**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	RE Blake
DESIGN	by D.A. Banks 9-63
	checked J.P. Hunter 1-64
DETAILS	by HIZUTANI 10-63
	checked J.P. Hunter 1-64
QUANTITIES	by R.B. Black 2-64
	checked D. Sudwarta 3-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
RETAINING WALL 2 (1 OF 3)			
SCALE 3" = 1'-0"	BRIDGE 42-226R	FILE	DRAWING 42226-28

SHEET	OF
23	87

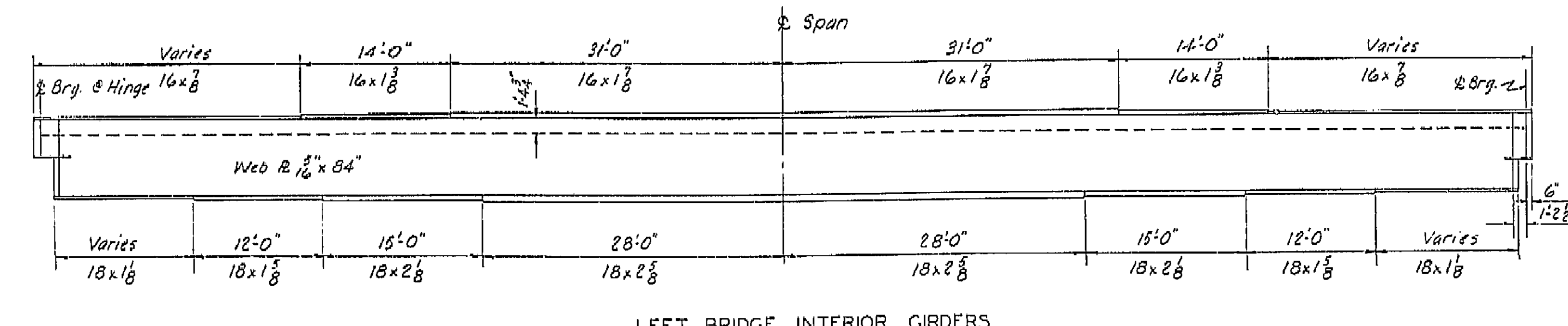
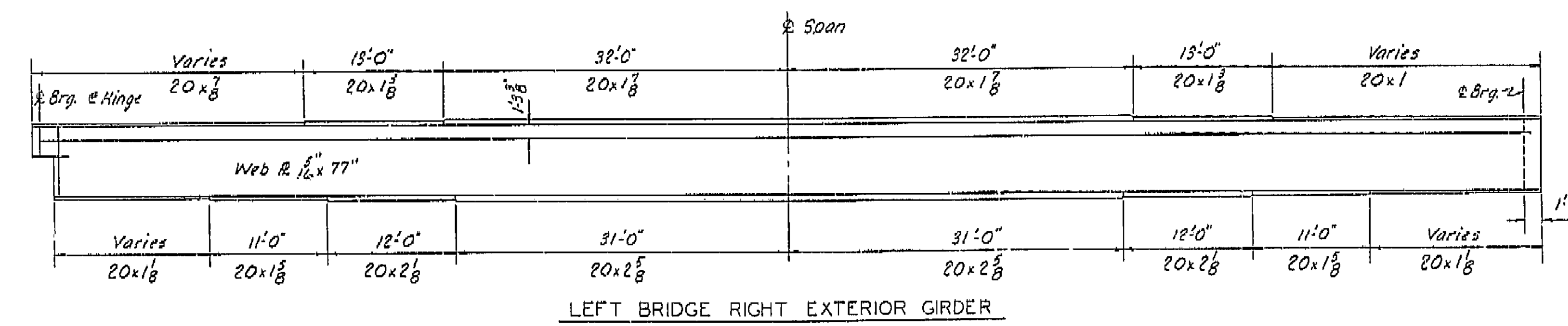
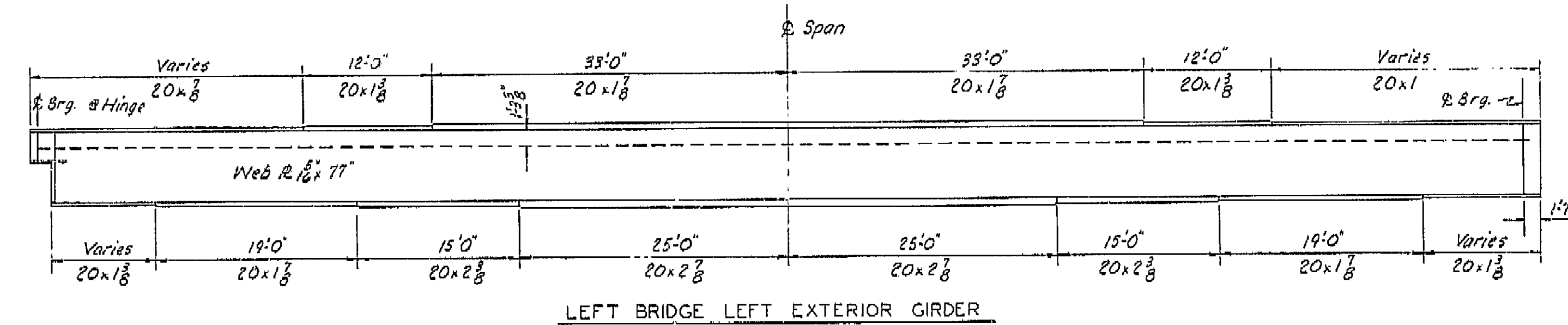
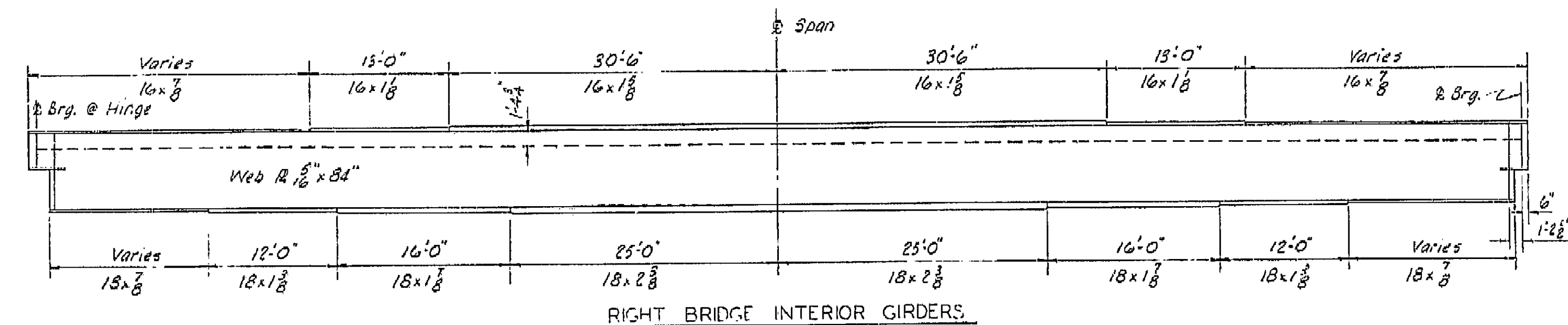
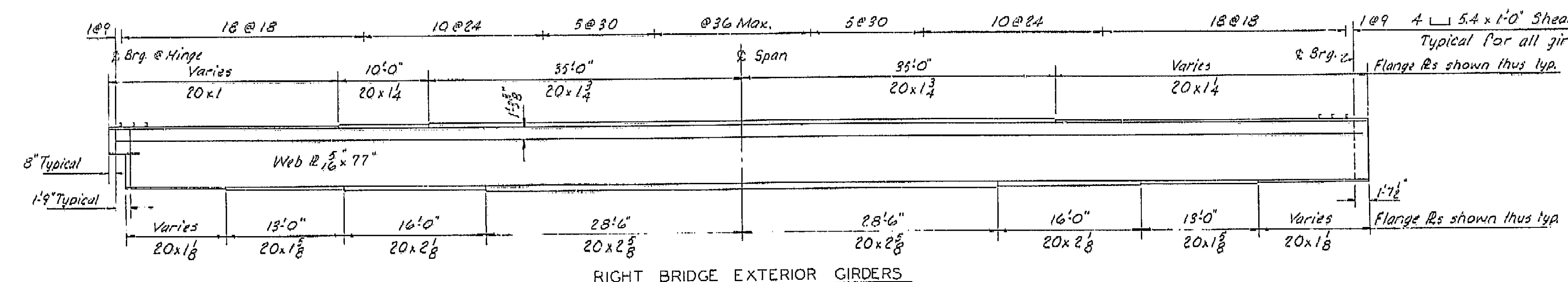
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-77 SIGNATURE [Signature] TITLE Sr. RMC











SPAN CAMBER COMPONENTS	SPAN 11 GIRDERS			SPAN 12 GIRDERS		
	LI.Exterior	Interior	RI.Exterior	LI.Exterior	Interior	RI.Exterior
1. Deck Dead Load	0.255	0.208	0.255	0.255	0.208	0.255
2. Curb & Rail	0.010	0.010	0.010	0.010	0.010	0.010
3. Deck Shrinkage	0.098	0.092	0.098	0.098	0.092	0.098
4. Girder Dead Load	0.064	0.057	0.063	0.064	0.057	0.063
5. Vertical Curve	0.098	0.097	0.096	0.084	0.097	0.096
6. HC + Sum 1 thru 5	0.525	0.464	0.522	0.511	0.464	0.522
7. WC + Sum 1 thru 5	0.525	0.464	0.522	0.511	0.464	0.522

LEFT BRIDGE

SPAN CAMBER COMPONENTS	SPAN 11 GIRDERS			SPAN 12 GIRDERS		
	LI.Exterior	Interior	RI.Exterior	LI.Exterior	Interior	RI.Exterior
1. Deck Dead Load	0.255	0.200	0.250	0.255	0.200	0.250
2. Curb & Rail	0.010	0.010	0.010	0.010	0.010	0.010
3. Deck Shrinkage	0.098	0.092	0.098	0.098	0.092	0.098
4. Girder Dead Load	0.060	0.055	0.060	0.060	0.055	0.060
5. Vertical Curve	0.090	0.090	0.090	0.094	0.093	0.092
6. HC + Sum 1 thru 5	0.513	0.447	0.508	0.517	0.450	0.510
7. WC + Sum 1 thru 5	0.513	0.447	0.508	0.517	0.450	0.510

RIGHT BRIDGE

GIRDER DEFLECTIONS

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

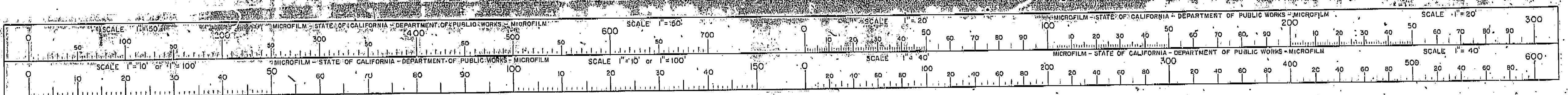
Note: Flange R sizes shown are minimum R thickness & length may be adjusted at Contractors option.  
See "Steel Girder Details 1" for exterior girder detail at Bent 12 R/L  
Longitudinal stiffener all girders 4x16

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" FRUITS DATA 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER L. NASH. REVISIONS CORRECTED BY: AS DATE: 7/1/66

BRIDGE DEPARTMENT  
DESIGN SECTION 15  
Section Supervisor: R.C. Blake  
DESIGN: By: S. F. 11-63  
Checked: E. H. 3-64  
DETAILS: By: J. H. 11-63  
Checked: S. H. 3-64  
QUANTITIES: By: J. R. 8-64  
Checked: J. R. 3-64

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS  
SOUTH FRESNO VIADUCT  
STEEL GIRDER DETAILS 3  
SCALE: NONE  
BRIDGE 42-226 R/L  
FILE  
DRAWING 42226-66

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS  
DATE 2-14-77 SIGNATURE [Signature] TITLE [Title]





Rev. Notes, lower  
Right Cor. Rev. Title  
Block + Co-Et-Sec  
Block, Deleted  
Signature Block  
+ Block above  
Co-Et-Sec. J.D.N.H.

6227 — 04/04/2004

W. F. Bond  
D. Langston  
D. J. Durack



DATE 2-14-72 SIGNATURE James E. [Signature] TITLE SIR RMC









FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	29	140	161

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

DATE APPROVED: October 5, 1964

ENGINEER: [Signature]

CIVIL ENGINEER - LICENSE 5585

AS BUILT PLANS  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section	RC Blade
Supervisor	
DESIGN	By R.J. Uroch 1963
Checked	L.D. Rice 12-63
DETAILS	By M. IZUTANI 10-63
Checked	L.D. Rice 12-63
QUANTITIES	By HAFSTAD 1-64
Checked	M. IZUTANI 1-64

STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
TOP GIRDER REINF. 5 (RT. BR.)	
SCALE NONE	BRIDGE 42-226 R/L FILE
DRAWING 42226-44	

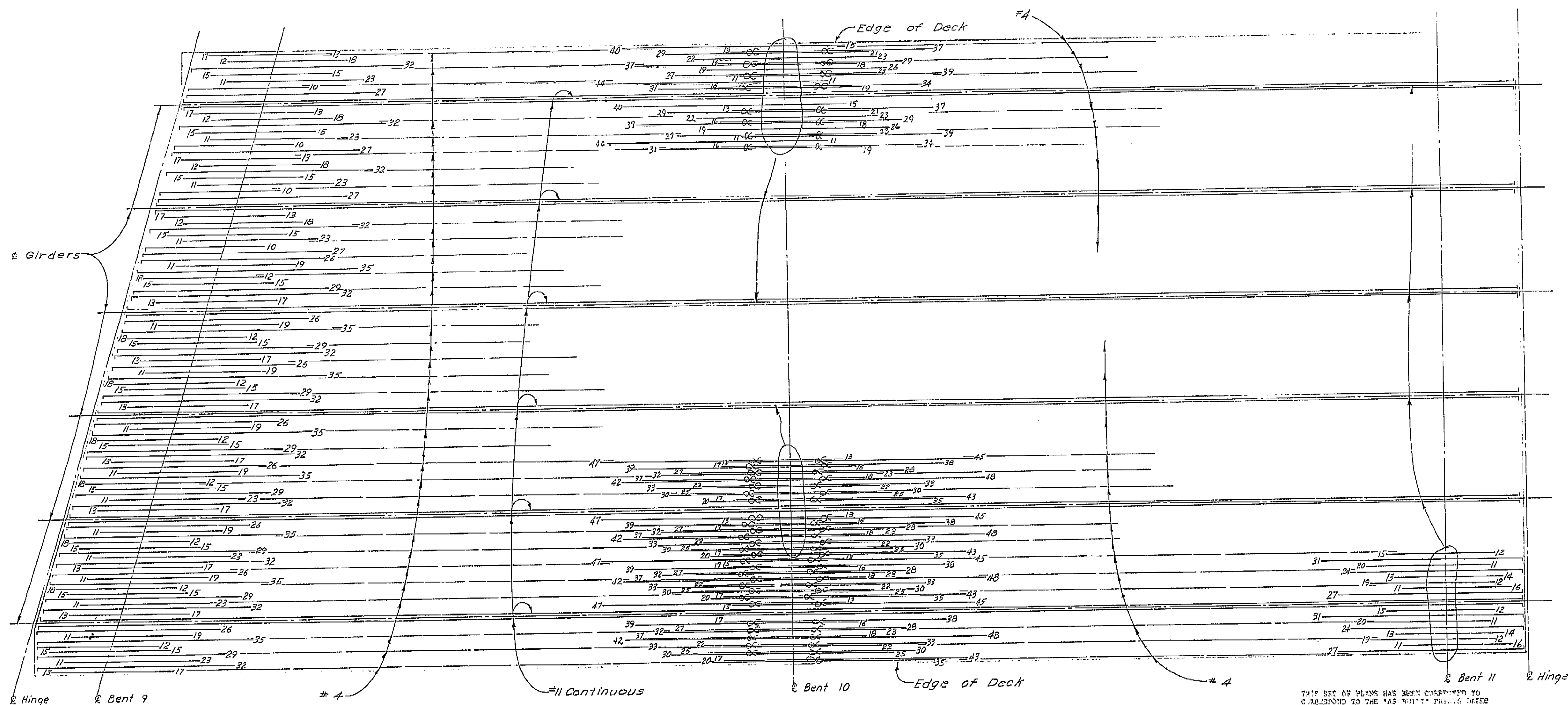
PRELIMINARY DRAWING NO.	REVISION DATES
P. 12/1/64	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE SVP RMC





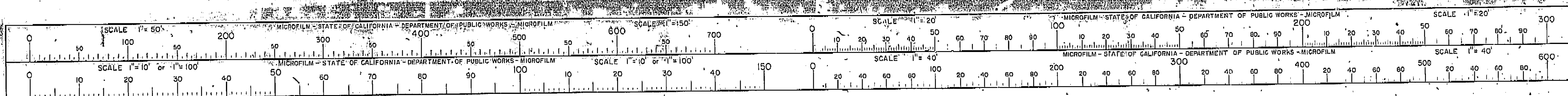


**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed \_\_\_\_\_  
Document No. 60001078

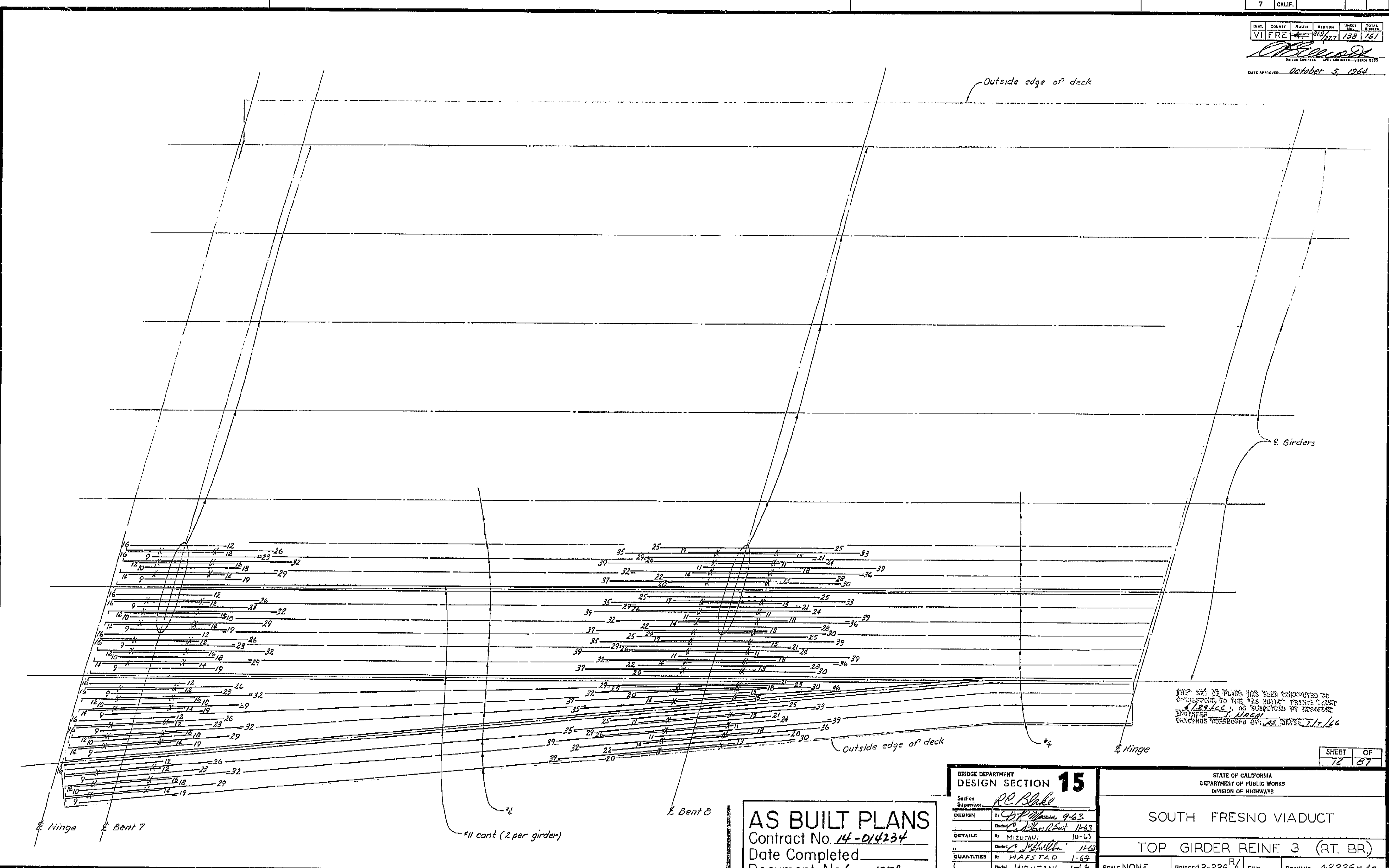
BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	RE. Blake
DESIGN	by C. J. Johnson 9-63
DETAILS	by J. J. Johnson 11-63
QUANTITIES	by H. A. F. STAD 1-64
Checked	MIZUTANI - 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
TOP GIRDER REINF. 4 (RT. BR.)	
SCALE NONE	BRIDGE 42-226 R/L FILE
DRAWING 42226-43	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]







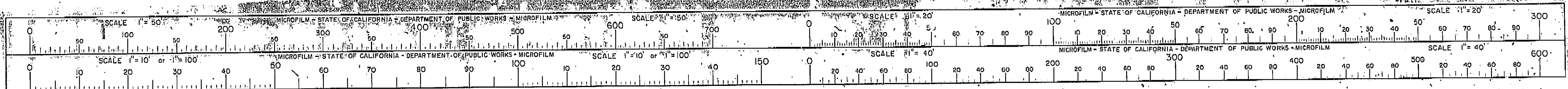
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS SUBMITTED BY THE ENGINEER. NO CHANGES WERE MADE TO THE ORIGINALS. CORRECTIONS MADE BY: *AS BUILT* DATE: *7/1/64*

**AS BUILT PLANS**  
 Contract No. *14-D14234*  
 Date Completed  
 Document No. *60001078*

BRIDGE DEPARTMENT DESIGN SECTION <b>15</b>	
Section Supervisor	<i>RE Blake</i>
DESIGN	By <i>C. D. P. Moore 9-63</i>
DETAILS	Checked by <i>M. J. Mizutani 11-63</i>
QUANTITIES	Checked by <i>H. A. F. Star 1-64</i>
Checked	<i>MIZUTANI 1-64</i>

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
TOP GIRDER REINF. 3 (RT. BR.)			
SCALE NONE	BRIDGE 42-226	FILE	DRAWING 42226-42
REVISION DATES			

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE *2-17-72* SIGNATURE *James R. Cantrell* *Sr. RMC*



138



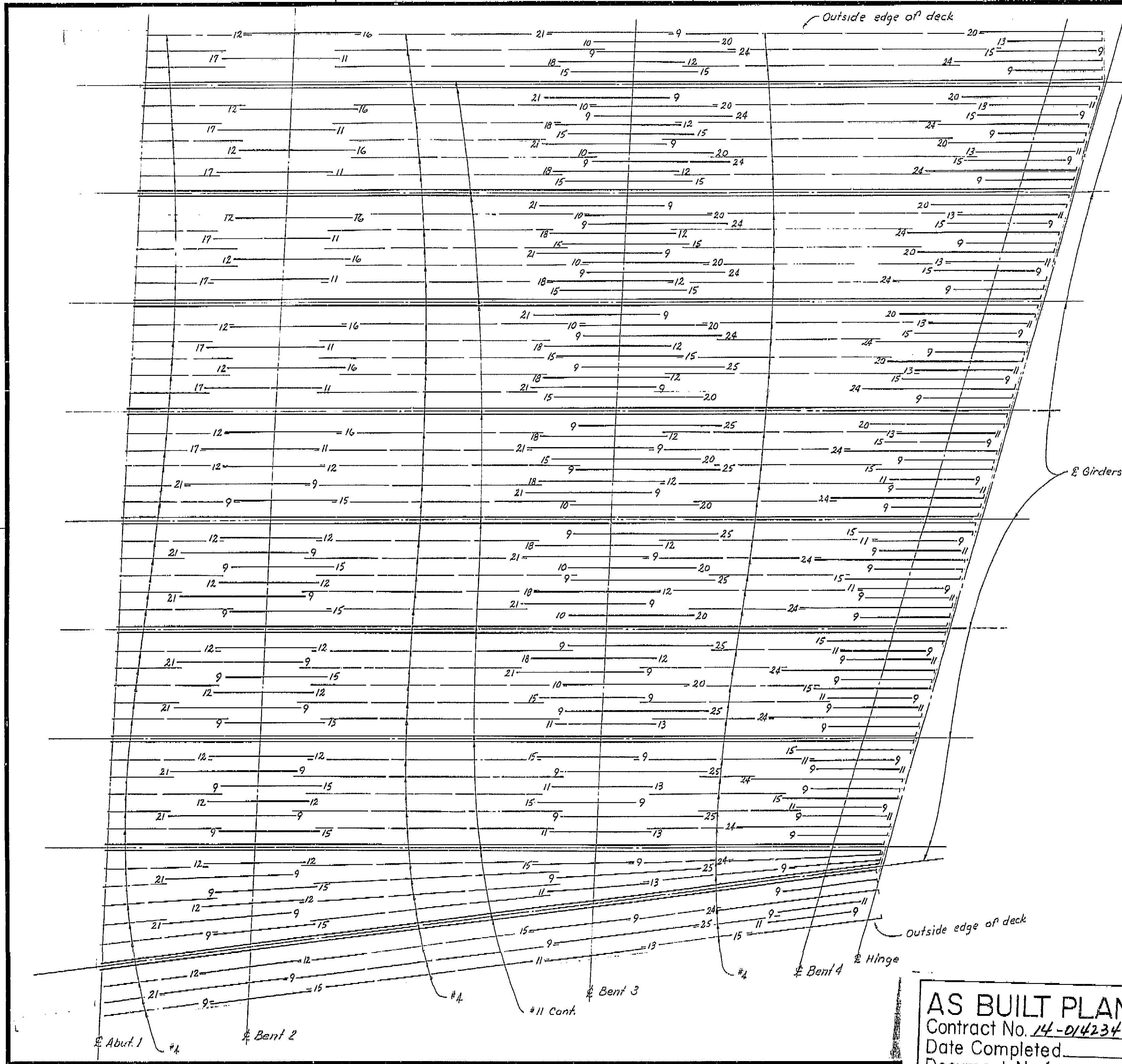




FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	21	136	136	161

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. WOOD. TRACINGS CORRECTED BY: [Signature] DATE: 2/1/66

NOTE:  $\equiv$  Indicates bundled bars.

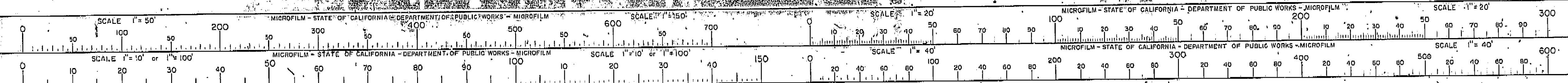
All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from R Bent. Typical for Top GIRDER REINF. 1 thru 6 RT. BR.

SHEET	OF
10	87

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor: <i>R.C. Blake</i>		SOUTH FRESNO VIADUCT	
DESIGN	by <i>C. J. Hurlbut</i> 1-63	TOP GIRDER REINF. 1 (RT. BR.)	
DETAILS	by <i>MIZUTANI</i> 10-63	SCALE NONE	
QUANTITIES	by <i>HAFSTAD</i> 1-64	BRIDGE 42-226 $\frac{R}{L}$ FILE	
Discard print bearing earlier revision dates		DRAWING 42226-40	

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed  
Document No. 60001072

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE *James E. Cloutier* TITLE *Sr. RMC*

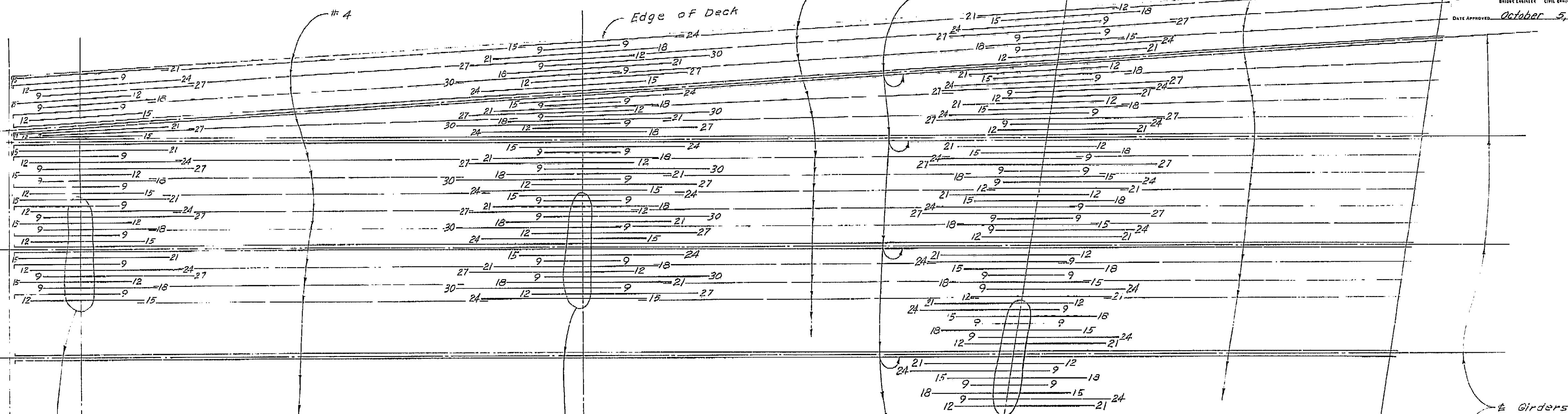




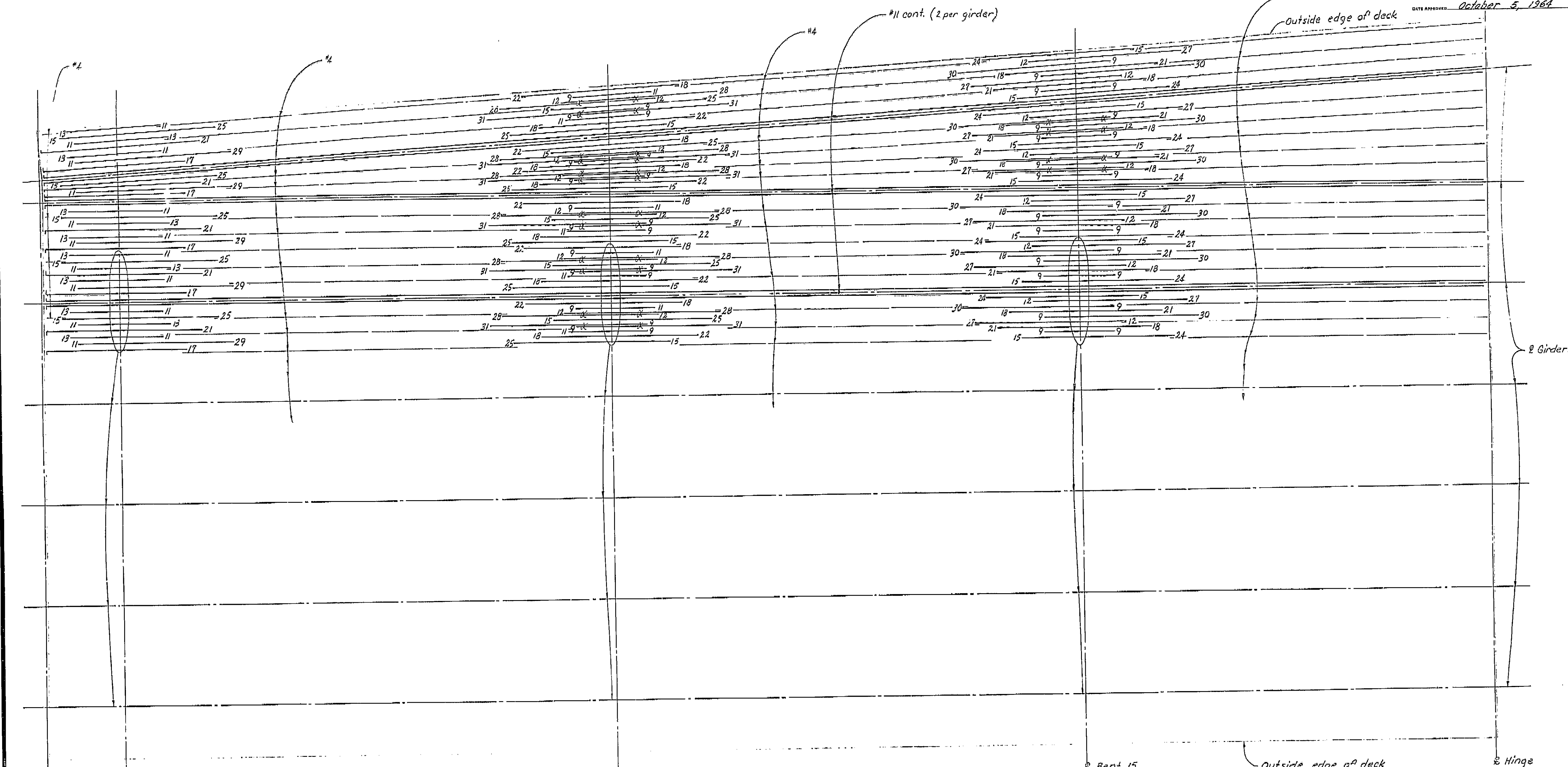
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21	135	167

ENGINEER: *[Signature]*  
DATE APPROVED: October 5, 1964







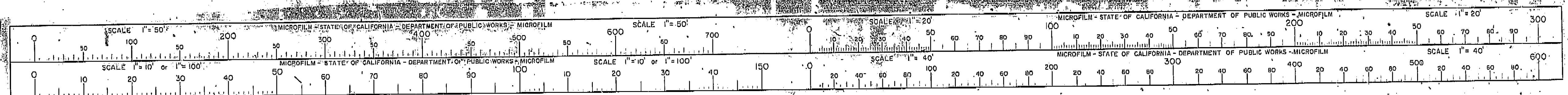
2 Hinge 2 Bent 13 2 Bent 14 2 Bent 15 2 Hinge

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" POLYESTER LITHO 4/24/66 AS SUBMITTED BY RESIDENT ENGINEER J. H. HARRIS. TRACINGS CORRECTED BY J.S. DATE: 7/2/66

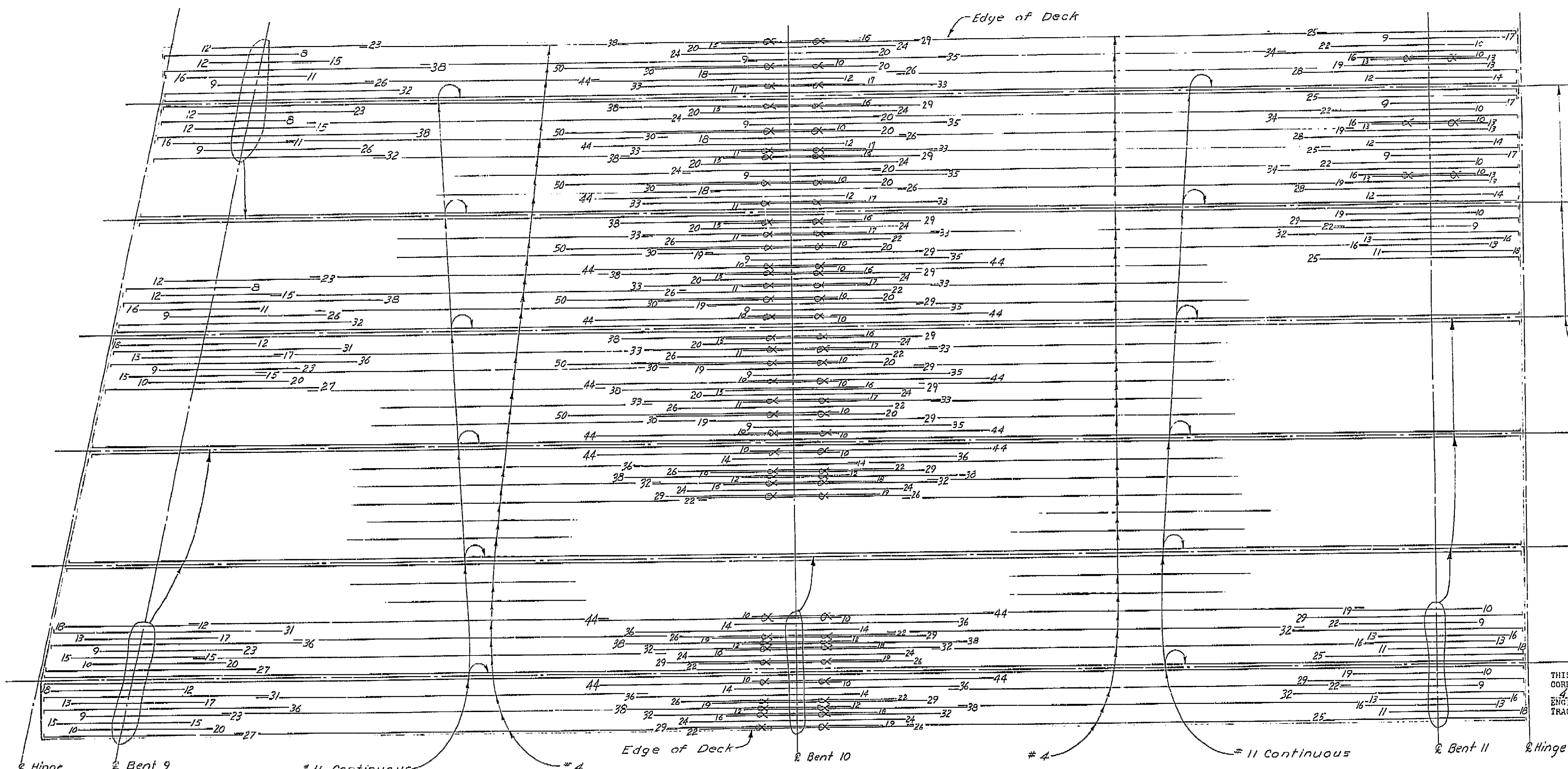
AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor R.C. Blake	DESIGN by Paul Whitaker 3-13 Checked D.P. Hansen 12-63	SOUTH FRESNO VIADUCT	
DETAILS by MIZUTANI ID Checked D.P. Hansen 12-63	QUANTITIES by HAFSTAD 1-64 Checked MIZUTANI 1-64	TOP GIRDER REINF. 5 (LT. BR.)	
SCALE NONE		BRIDGE 42-226	FILE DRAWING 42226-30
PRELIMINARY DRAWING NO. P-1784		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE SR RMC





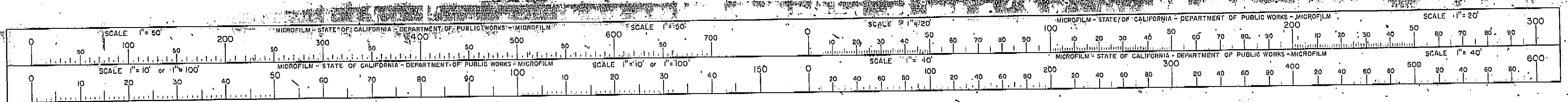


**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed  
 Document No. 60001078

BRIDGE DEPARTMENT	
<b>DESIGN SECTION 15</b>	
Section Supervisor	RE Blah
DESIGN	W L D Ricci 12-63
DETAILS	W L D Ricci 10-63
QUANTITIES	HAFSTAD 1-64
	MIZUTANI 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
TOP GIRDER REINF. 4 (LT. BR.)	
SCALE NONE	BRIDGE 42-226 R/ FILE DRAWING 42226-39
PRELIMINARY DRAWING NO. PLS 61759	REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-77 SIGNATURE [Signature] TITLE Supt. RMC

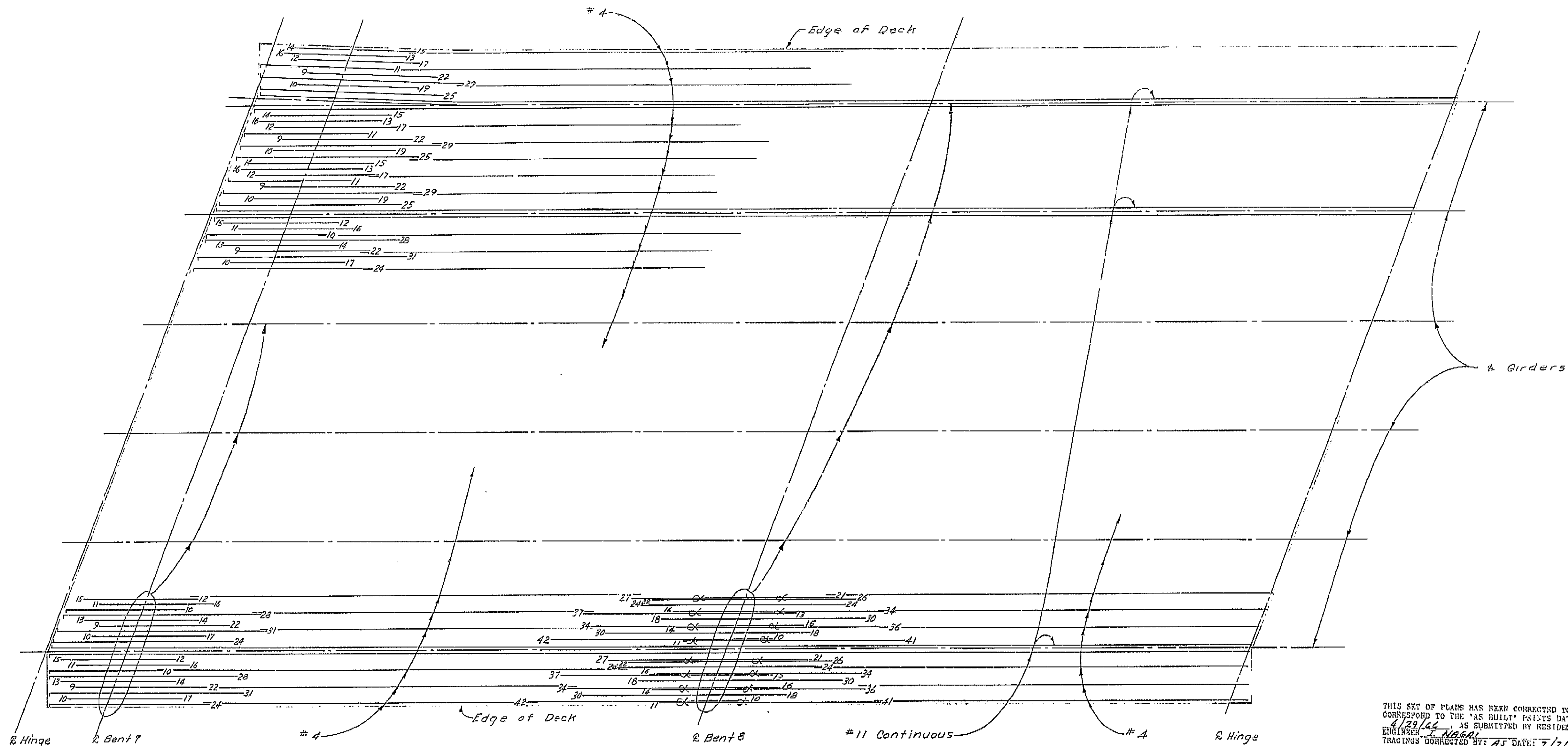




FED. ROAD DIST. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	42	226	132	167

BRIDGE ENGINEER: *[Signature]*  
DATE APPROVED: October 5, 1968



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/27/66, AS SUBMITTED BY RESIDENT ENGINEER *[Signature]*.  
TRACINGS CORRECTED BY: *[Signature]* DATE: 7/7/66

SHEET	OF
66	87

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

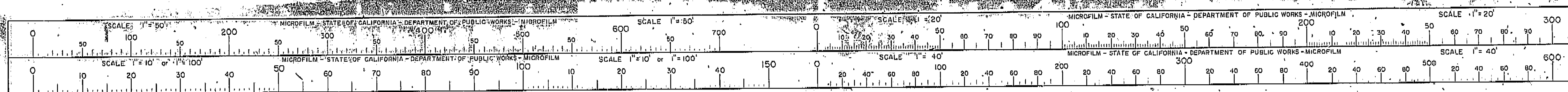
BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	<i>[Signature]</i>
DESIGN	By <i>[Signature]</i> 12-63
	Checked <i>[Signature]</i> 1-64
DETAILS	By <i>[Signature]</i> 10-63
	Checked <i>[Signature]</i> 1-64
QUANTITIES	By <i>[Signature]</i> 1-64
	Checked <i>[Signature]</i> 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
TOP GIRDER REINF. 3 (LT. BR.)	
SCALE NONE	BRIDGE 42-226 R/L
FILE	DRAWING 42226-38

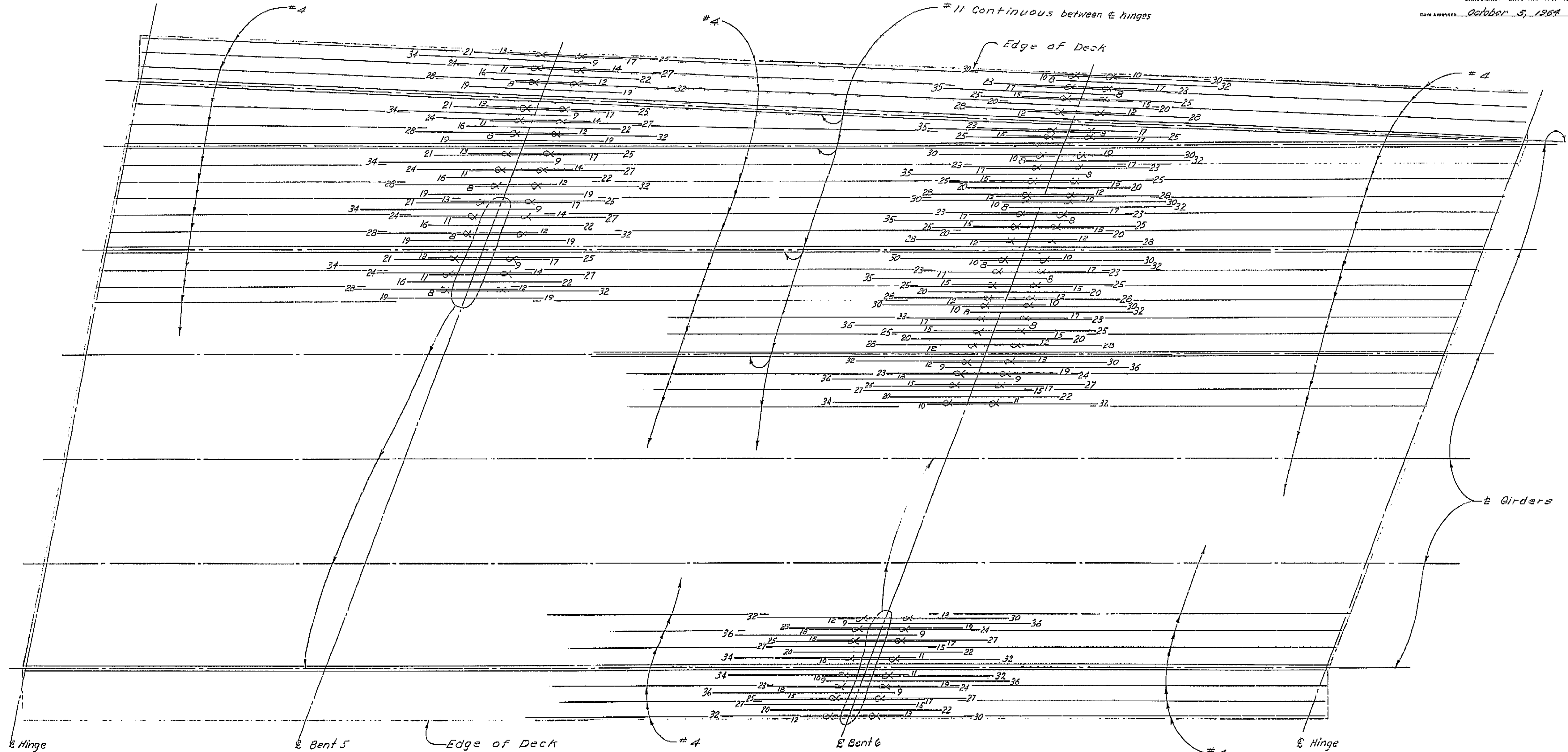
Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No.	REVISION DATES
P 132/132	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE *[Signature]* TITLE *[Signature]*







**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

THIS SET OF PLANS WAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. N. GARDNER. CHANGES CORRECTED BY: J.S. DATE: 7/1/66

SHEET	OF
65	87

BRIDGE DEPARTMENT  
**DESIGN SECTION 15**  
 Section Supervisor: R.C. Bahr  
 DESIGN by L.D. Ricci 12-63  
 DETAILS by P.J. Jurich 4-64  
 QUANTITIES by HAFSTAD 1-64

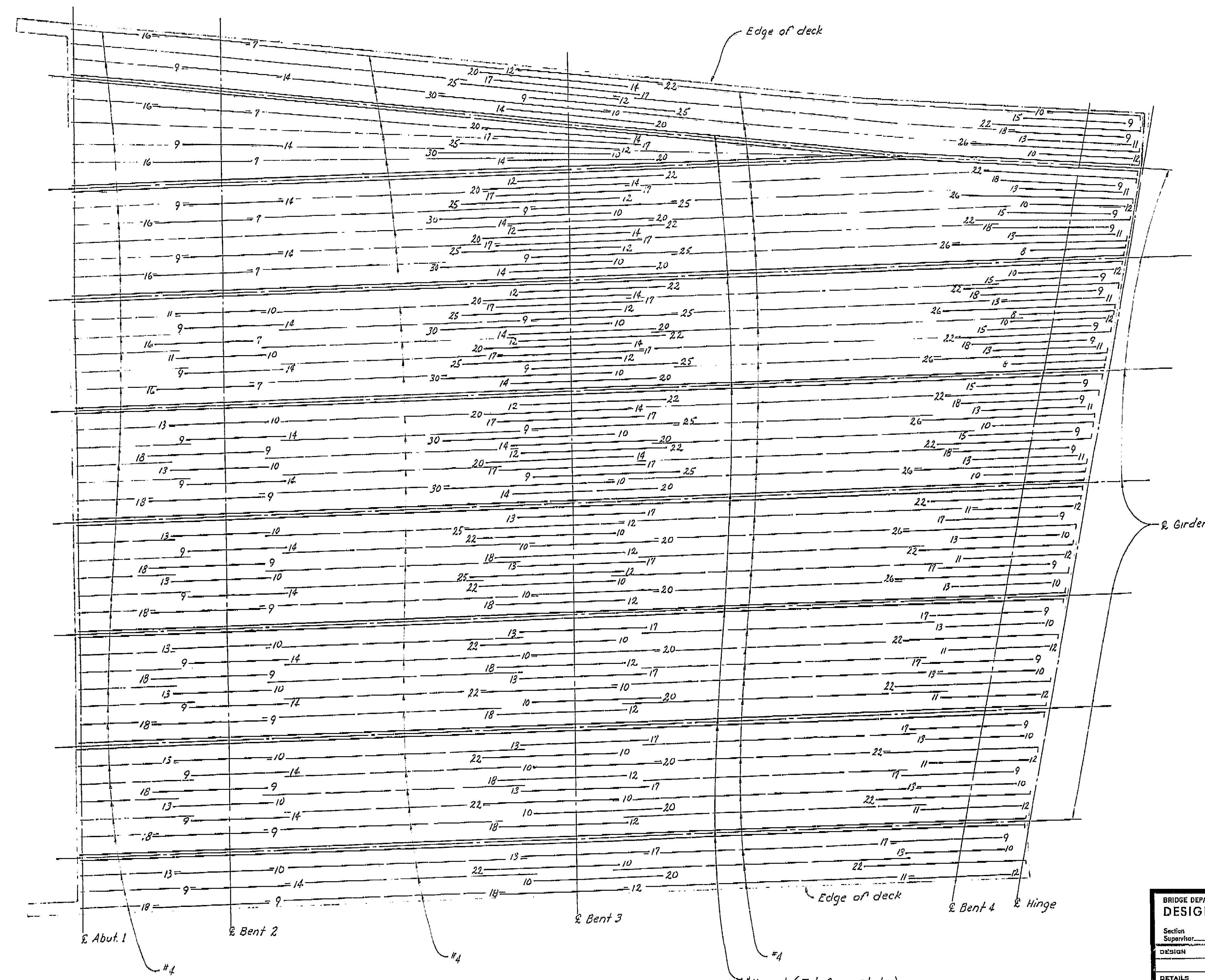
STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS  
**SOUTH FRESNO VIADUCT**  
**TOP GIRDER REIN 2 (LT. BR.)**  
 SCALE NONE  
 BRIDGE 42-226 R/L  
 FILE  
 DRAWING 42226-37

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]



131





AS BUILT PLANS  
Contract No. 42-226  
Date Completed  
Document No. 42226-86

Note:  
All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from 2 Bent. Typical for Top Girder Reinf. sheet 1 thru 6 Lt. Bridge.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/25/66 AS SUBMITTED BY RESIDENT ENGINEER J. N. N. DATE: 7/2/66

SHEET 64 OF 87

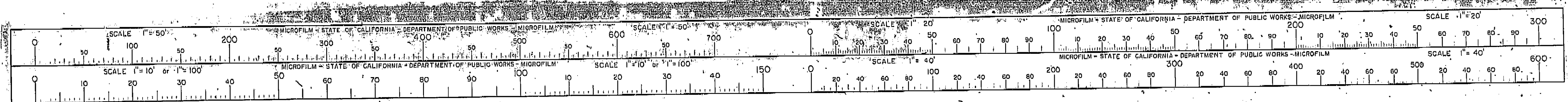
BRIDGE DEPARTMENT		
DESIGN SECTION 15		
Section Supervisor	R. C. Blum	
DESIGN	by L. D. Ricci	12-63
	checked P. J. Jurach	4/63
DETAILS	by M. J. TANI	10-63
	checked P. J. Jurach	4/63
QUANTITIES	by H. A. F. TAD	1-64
	checked M. J. TANI	1-64

STATE OF CALIFORNIA		
DEPARTMENT OF PUBLIC WORKS		
DIVISION OF HIGHWAYS		
SOUTH FRESNO VIADUCT		
TOP GIRDER REINF 1 (LT. BR.)		
SCALE NONE	BRIDGE 42-226	FILE
DRAWING 42226-86		

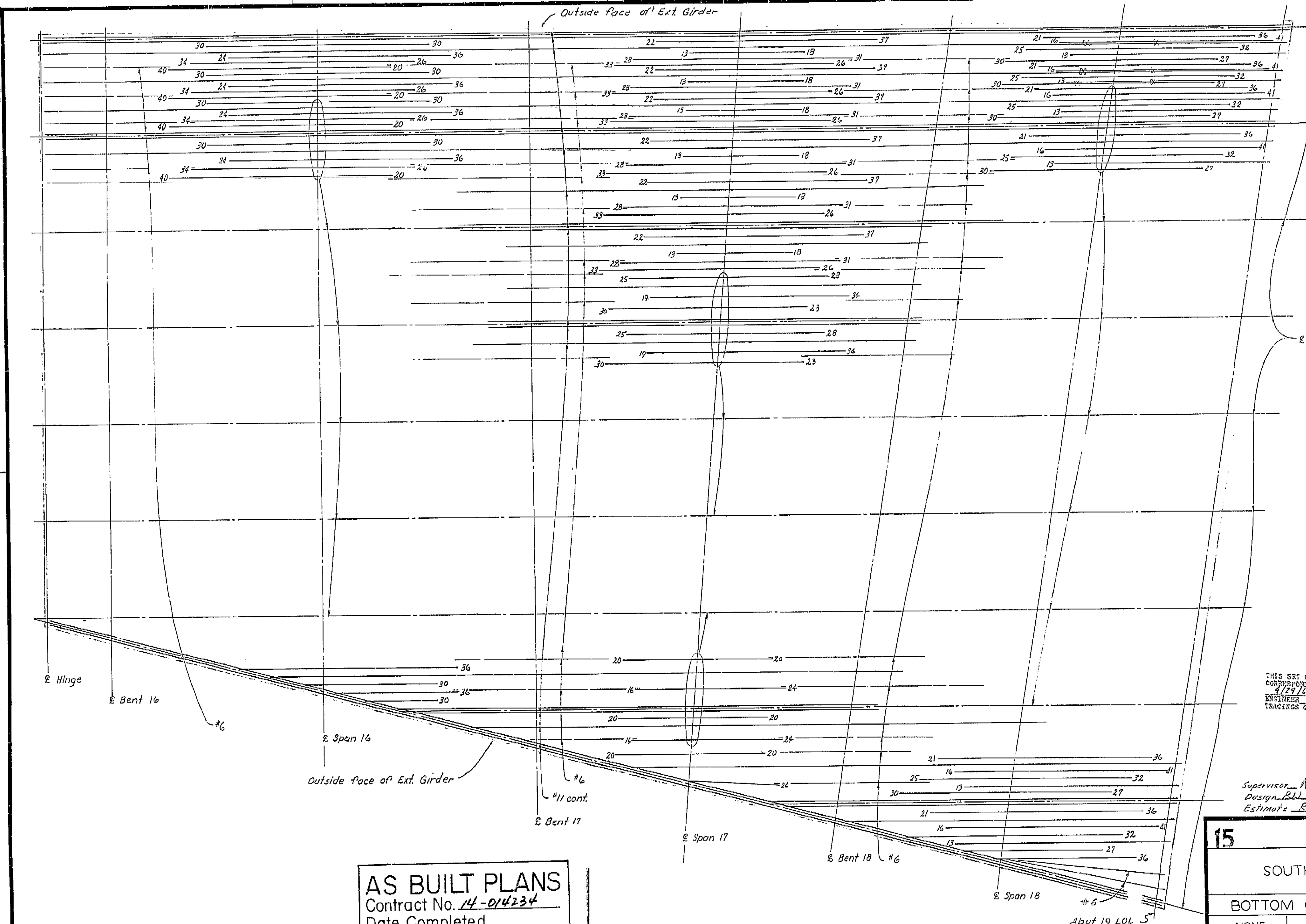
Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING NO.		REVISION DATES	
P. 226-86	1		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE J. N. N. TITLE S. R. N. C.







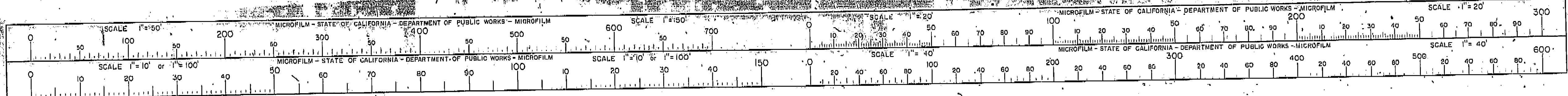
THIS SET OF PLANS HAS BEEN COMPARED TO  
CORRESPOND TO THE "AS BUILT" PRINTS DATED  
4/29/66, AS SUBMITTED BY RESIDENT  
ENGINEER J. NAGAI  
TRACINGS CORRECTED BY: AS DATED 7/1/66

Supervisor RE Blake  
Design BB 143 Check LDR 143  
Estimate RT Check MIZUTANI 1-64

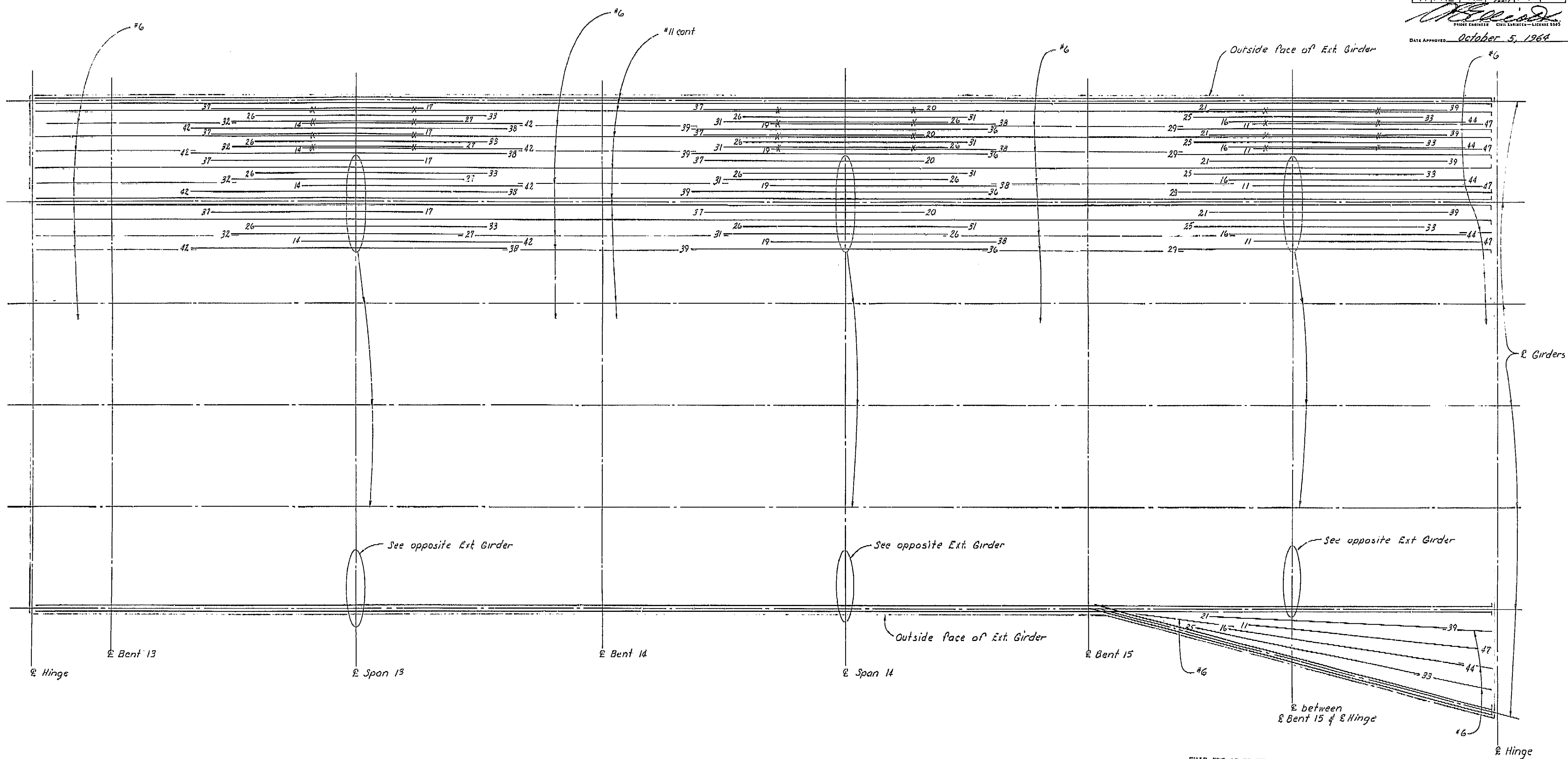
15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 6 (RT. BR.)			
SCALE NONE	BRIDGE 42-226	FILE	DRAWING 42226-57

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed           
Document No. 60001078

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE James E. Conville TITLE Sr. RMC







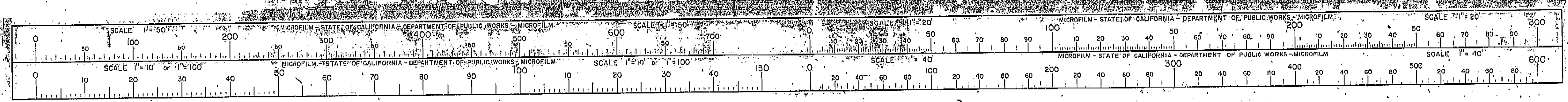
THIS SET OF PLANS HAS BEEN CORRECTED TO  
CONFORM TO THE "AS BUILT" PRINTS DATED  
4/29/66, AS SUBMITTED BY RESIDENT  
ENGINEER J. NAGAI  
TRACINGS CORRECTED BY: AS DATE: 7/7/66

AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed \_\_\_\_\_  
Document No. 60001078

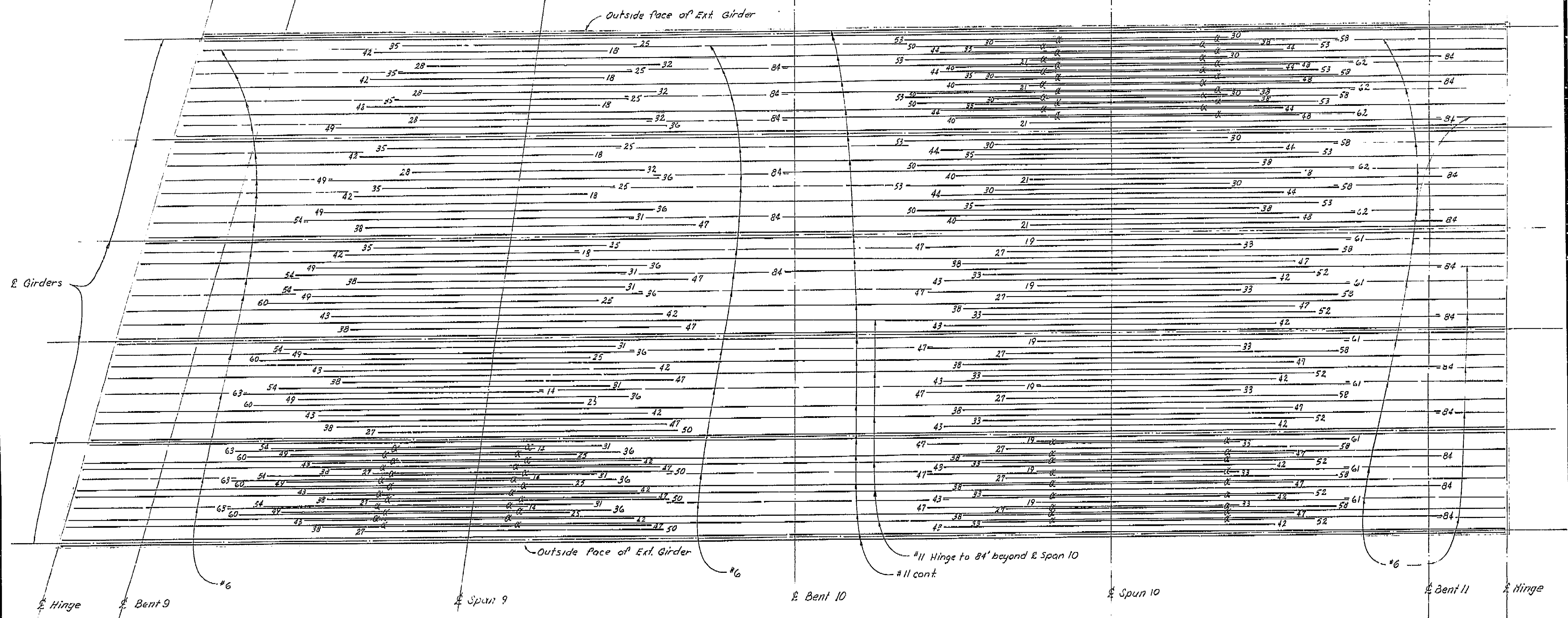
BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	RC Blank
DESIGN	By P.J. Jurach 12-63
	Checked L.D. Ricci 12-63
DETAILS	By HIZUTANI 11-61
	Checked L.D. Ricci 12-63
QUANTITIES	By HAFSTAD 1-64
	Checked HIZUTANI 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
BOTTOM GIRDER REINF. 5 (RT. BR.)	
SCALE NONE	BRIDGE 42-226 FILE
DRAWING 42226-56	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE SR RMC







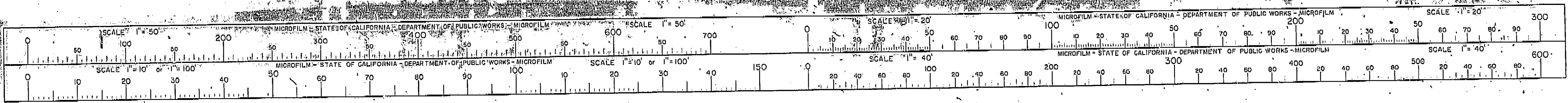
THIS SET OF PLANS HAS BEEN CORRECTED TO  
4/24/64 THE 15 REVISIONS LISTED  
4/24/64 IS SUBMITTED BY RESIDENT  
ENGINEER  
REVISIONS CORRECTED BY: DATE: 7/2/64

AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

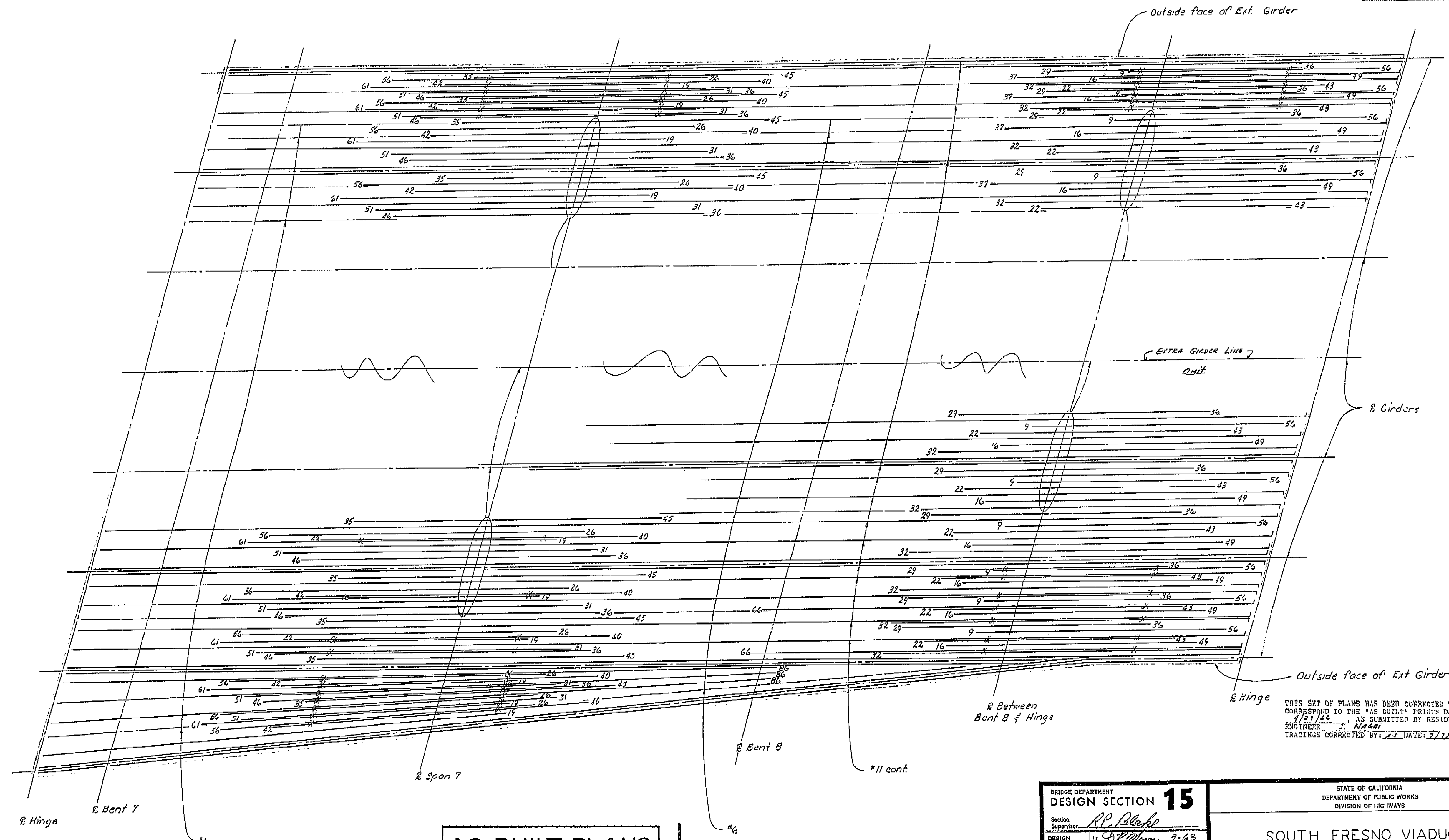
BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor: R. C. Blahut			
DESIGN	By: R. C. Blahut	9-63	
	Checked: C. J. Blahut	11-63	
DETAILS	By: MIZUTANI	10-63	
	Checked: R. C. Blahut	11-63	
QUANTITIES	By: HAFSTAD	1-64	
	Checked: MIZUTANI	1-64	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
BOTTOM GIRDER REINF. 4 (RT. BR.)	
SCALE NONE	BRIDGE 42226 FILE
DRAWING 42226-55	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE Sr. RMC







THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/23/66, AS SUBMITTED BY RESIDENT ENGINEER J. N. GALT. TRACINGS CORRECTED BY: J.S. DATE: 7/1/66

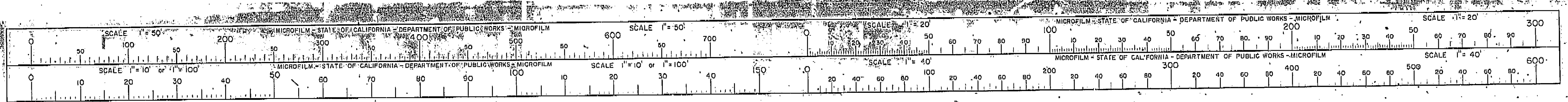
SHEET 60 OF 87

**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed \_\_\_\_\_  
 Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15	
DESIGN	By R. P. Blanche 9-63
DETAILS	By MIZUTANI 10-63
QUANTITIES	By HAFSTAD 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 3 (RT. BR.)			
SCALE NONE	BRIDGE 42-226	FILE	DRAWING 42226-59

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE S.P. RMC

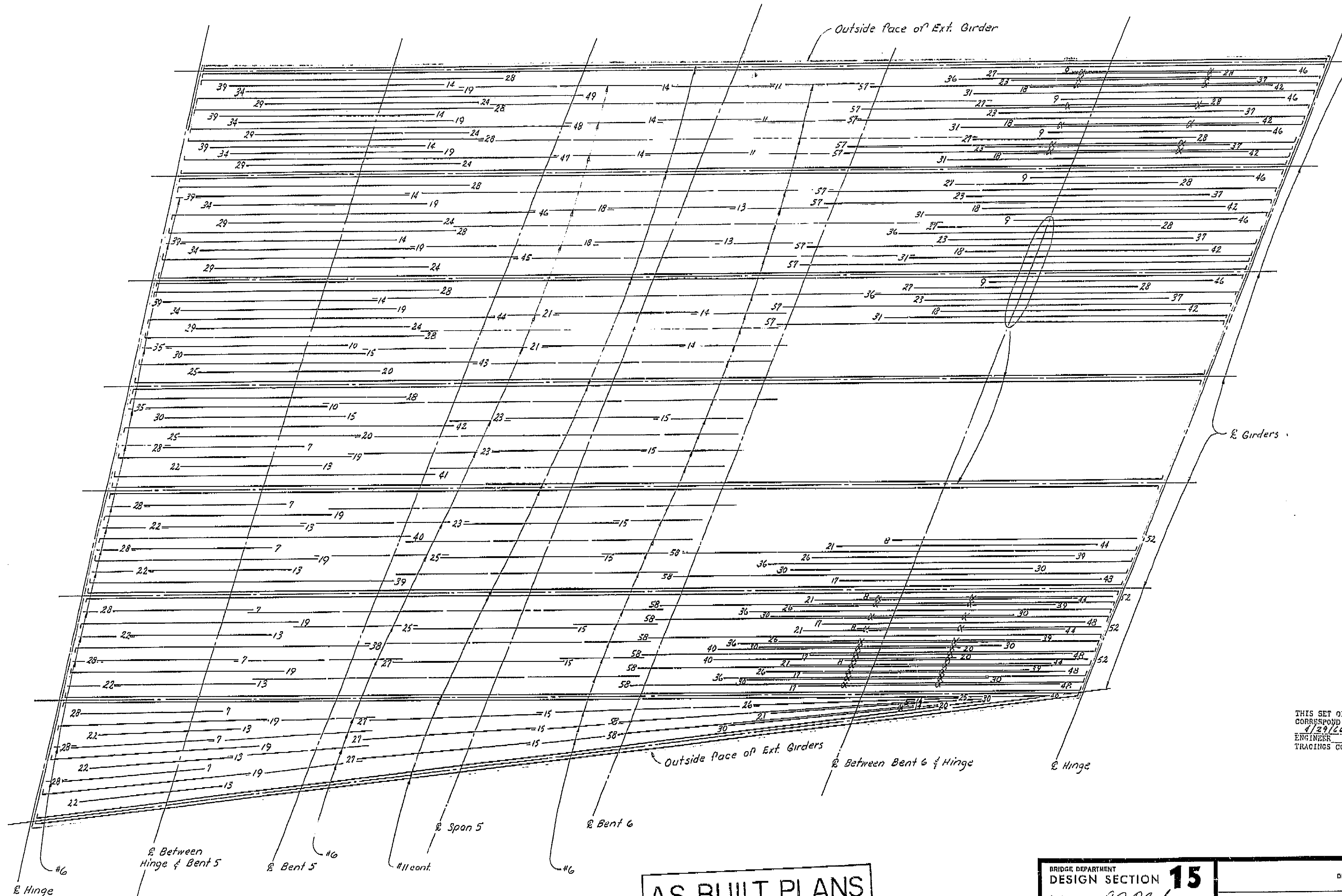




FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	125	125	161

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI. TRACINGS CORRECTED BY: A.S. DATE: 1/17/66

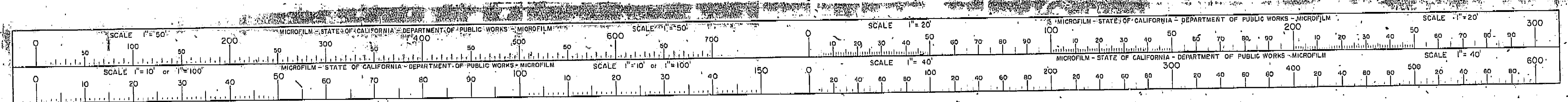
**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15	
Section Supervisor	R. C. Blake
DESIGN	C. J. Moore 9-63
DETAILS	C. J. Moore 11-63
QUANTITIES	MIZUTANI 1-64
	MIZUTANI 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
BOTTOM GIRDER REINF. 2 (RT. BR.)	
SCALE NONE	BRIDGE 42-226 R/L
FILE	DRAWING 42226-53

SHEET	OF
39	87

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE S.D. RMC

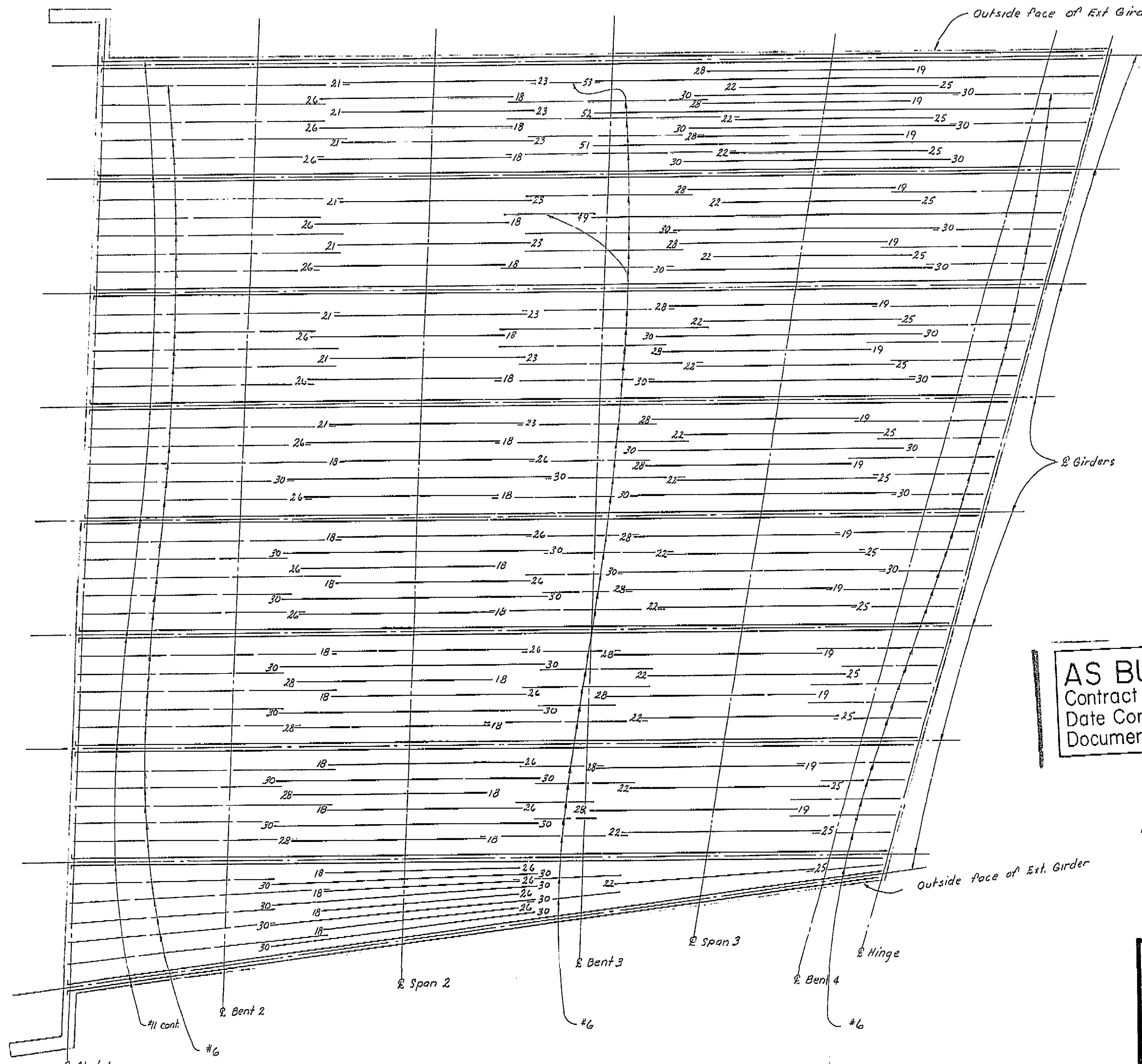




FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	42	226	124	161

BRIDGE ENGINEER: CHAS. E. HARRIS - LICENSE 2587  
DATE APPROVED: October 5, 1964



**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

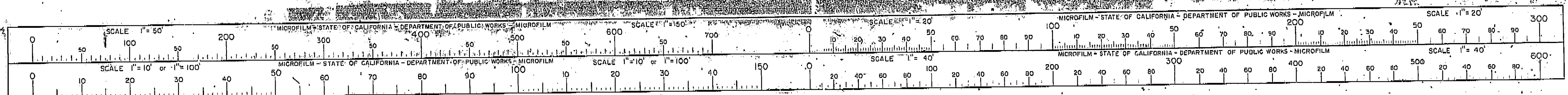
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/22/66, AS SUBMITTED BY RESIDENT ENGINEER T. N. NORTON. TRACINGS CORRECTED BY: J.S. DATE: 7/1/66

NOTE:  $\equiv$  indicate bundled bars  
All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from  $\bar{L}$  Span or  $\bar{L}$  between Hinge and Bent. Typical for Bottom GIRDER REINF. 1-6 Rt. BR.

BRIDGE DEPARTMENT	
DESIGN SECTION	15
Section Supervisor	RC. R. R.
DESIGN	by C. R. R. 4-63
DETAILS	by C. R. R. 11-63
QUANTITIES	by HAFSTAD 1-64
	checked MIZUTANI 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 1 (RT. BR.)			
SCALE NONE	BRIDGE 42 226	FILE	DRAWING 42226-52
PRELIMINARY DRAWING NO.	REVISION DATES		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]





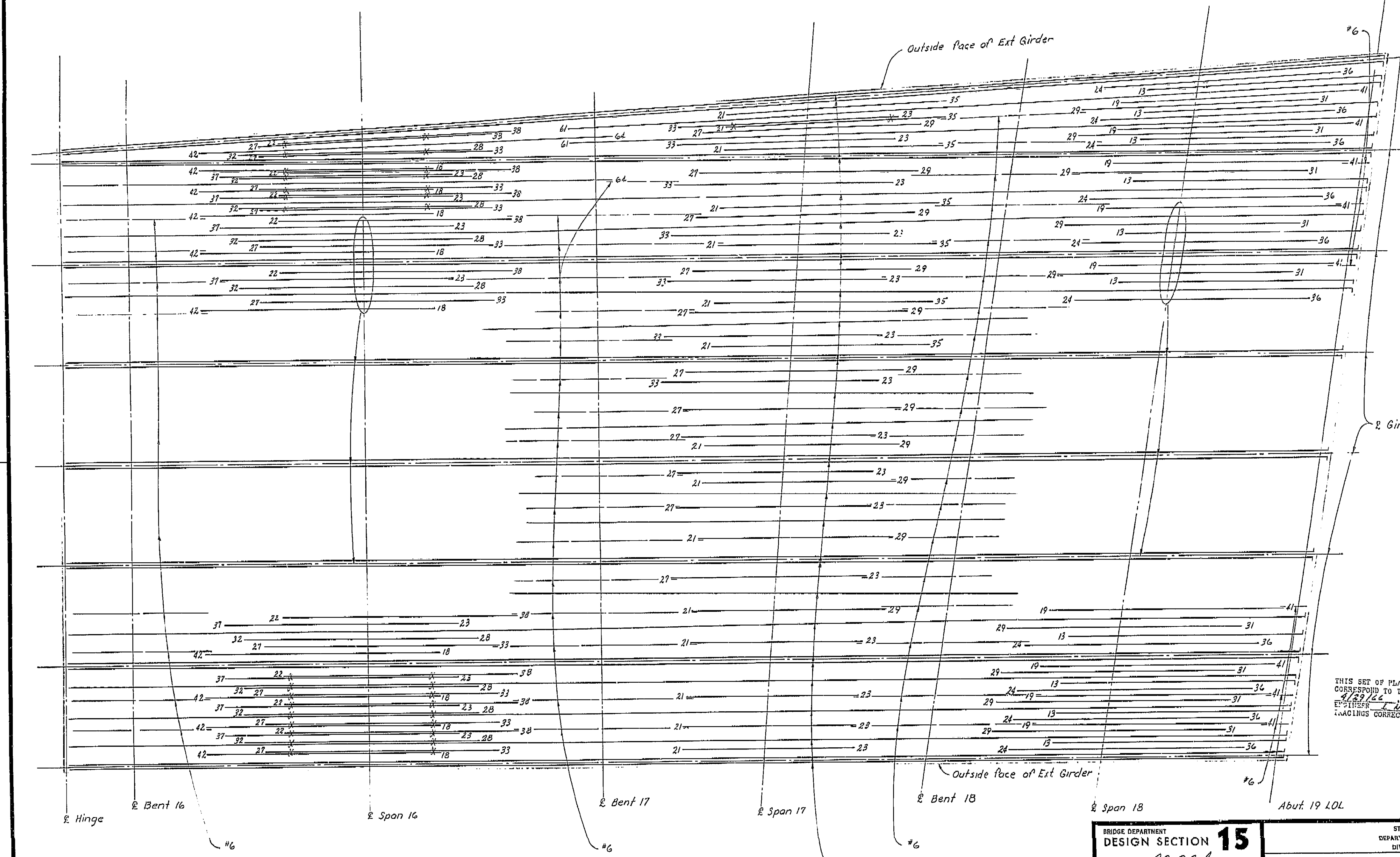
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	42	226	123	161

BRIDGE ENGINEER CIVIL ENGINEER—LICENSED 5585

DATE APPROVED: October 5, 1964



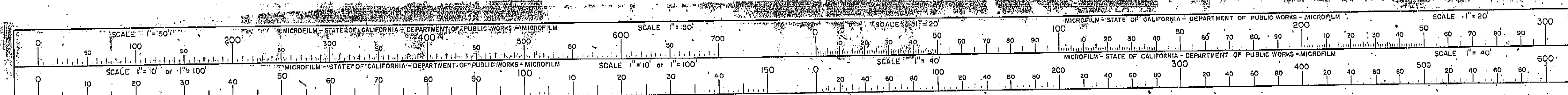
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER T. Vogel. CHANGES CORRECTED BY RS DATE: 7/2/66

**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed \_\_\_\_\_  
 Document No. 60001072

BRIDGE DEPARTMENT	
<b>DESIGN SECTION 15</b>	
Section Supervisor	<u>RC Blake</u>
DESIGN	by <u>C. J. P. Smith</u> 9-63 checked <u>D. P. M. Smith</u> 12-63
DETAILS	by <u>M. H. T. Smith</u> 10-63 checked <u>D. P. M. Smith</u> 12-63
QUANTITIES	by <u>H. F. S. T. Smith</u> 1-64 checked <u>M. H. T. Smith</u> 1-64

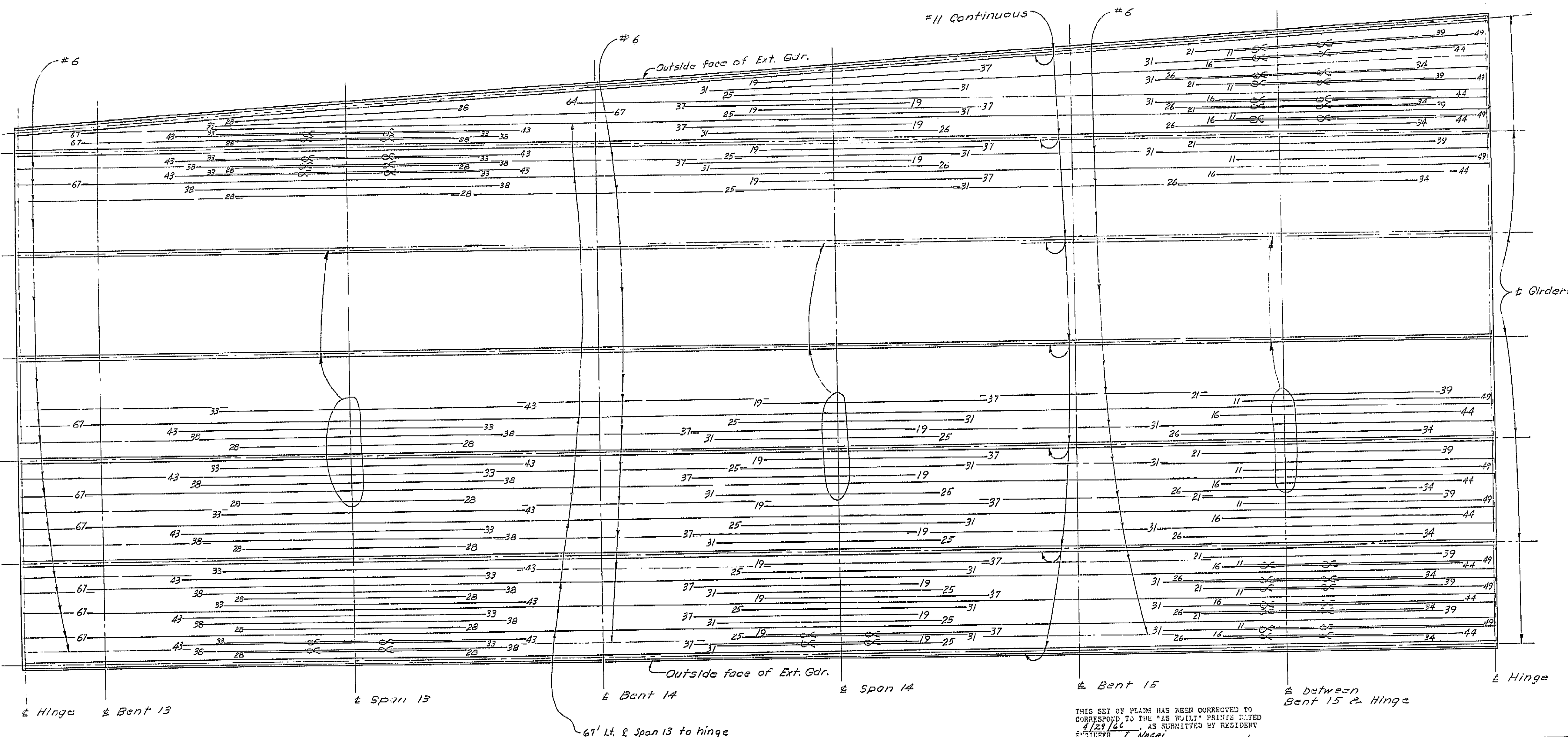
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
BOTTOM GIRDER REINF. 6 (LT. BR)	
SCALE NONE	BRIDGE 42-226
FILE	DRAWING 42226-51

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE SR. RMC



123



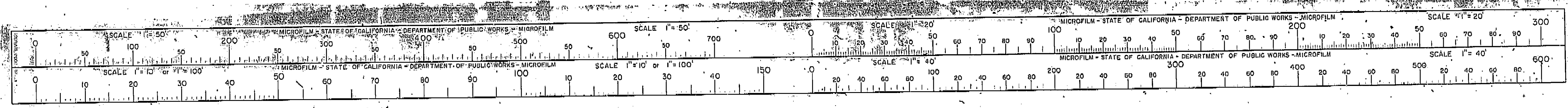


THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nages. REVISIONS CORRECTED BY: AS DATE: 7/7/64

AS BUILT PLANS  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor	RC Bader	SOUTH FRESNO VIADUCT	
DESIGN	By C. J. Bader 9-63 Checked by J. R. Bader 12-63	BOTTOM GIRDER REINF. 5 (LT. BR.)	
DETAILS	By J. R. Bader 11-63 Checked by J. R. Bader 11-63	DRAWING 42226-50	
QUANTITIES	By HAFSTAD 1-64 Checked by M. L. TANI 1-64	REVISION DATES	
Diverged prints bearing earlier revision dates		P. 122/122	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE SR RMC

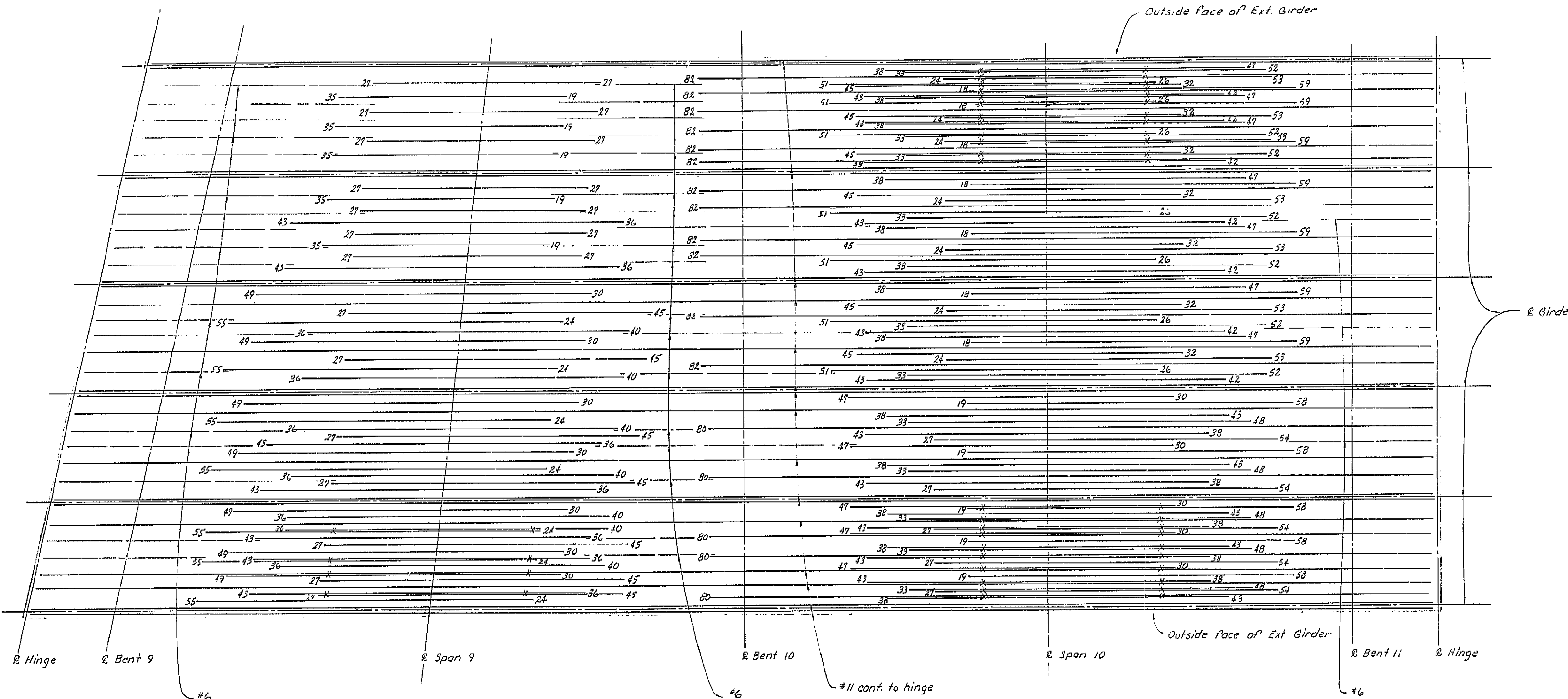




FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	127	127	127	161

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRELATED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai. REVISIONS CORRECTED BY: AS DATE: 7/2/66

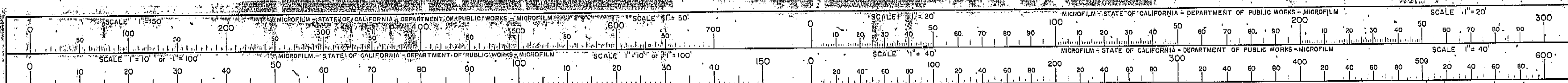
SHEET	OF
35	87

**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R. P. Blake
DESIGN	By L. D. Ricci 12-63 Checked P. J. Jurach 12-63
DETAILS	By MIZUTANI 11-63 Checked P. J. Jurach 12-63
QUANTITIES	By HAFSTAD 1-64 Checked MIZUTANI 1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 4 (LT. BR.)			
SCALE NONE	BRIDGE 42-226	FILE	DRAWING 42226-49

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]

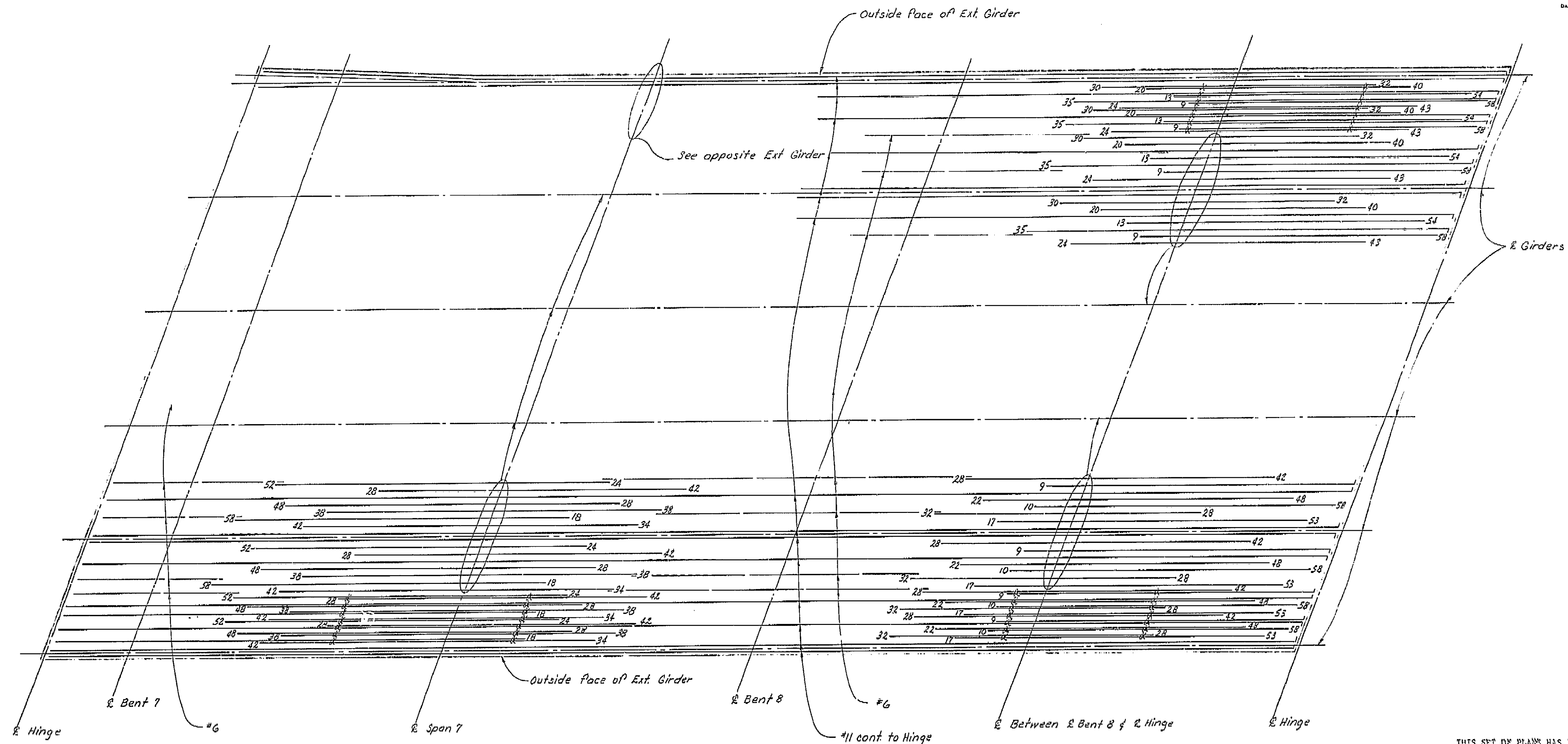




FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	44	120	161	

DATE APPROVED: October 5, 1964

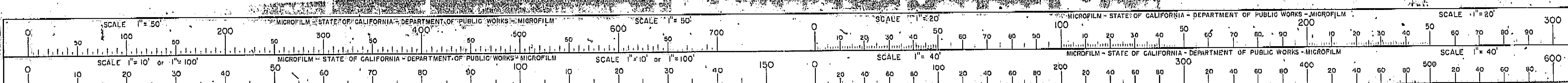


**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed \_\_\_\_\_  
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	<u>R.C. Baker</u>	
DESIGN	By <u>L.D. Rice</u>	<u>12-63</u>
	Checked <u>P.J. Juron</u>	<u>1-64</u>
DETAILS	By <u>Mizutani</u>	<u>11-62</u>
	Checked <u>P.J. Juron</u>	<u>1-64</u>
QUANTITIES	By <u>HAFSTAD</u>	<u>1-64</u>
	Checked <u>MIZUTANI</u>	<u>1-64</u>

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 3 (LT. BR.)			
SCALE NONE	BRIDGE 42-226	FILE	DRAWING 42226-48
PRELIMINARY DRAWING NO. <u>P-120</u>		REVISION DATES	

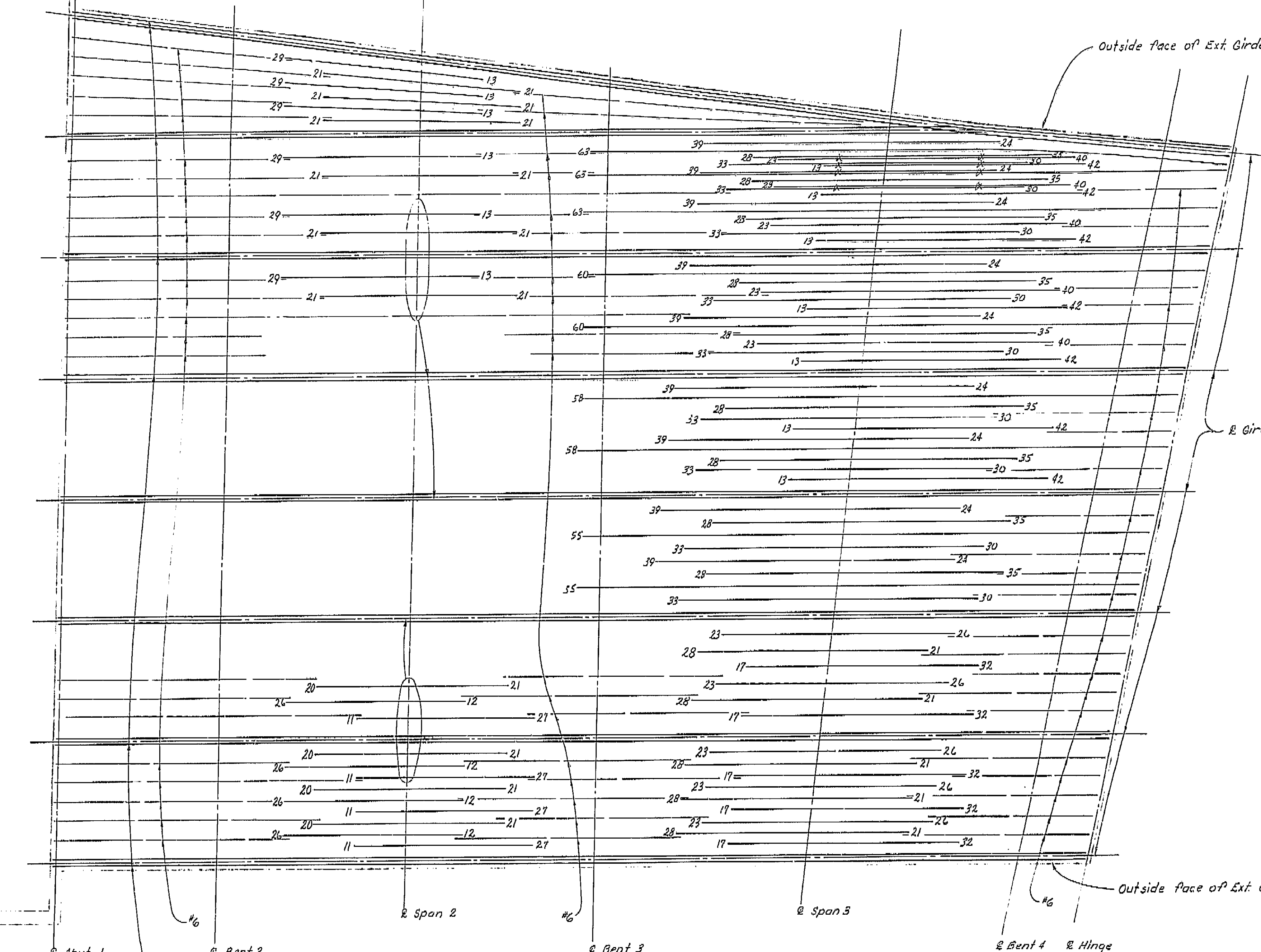
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE James E. Couture TITLE SR. ASMO











THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai.  
 CHANGES CORRECTED BY: 23 DATE: 7/1/66

NOTE:  
 All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from 2 Span. Typical for Bottom Girder Reinf. sheet 1 thru 6 L.R. Bridge.

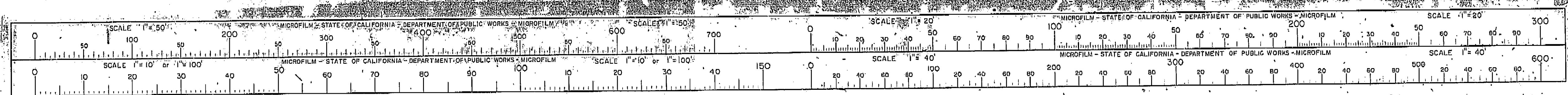
#11 cont. (tot. 2 per girder) to hinge

**AS BUILT PLANS**  
 Contract No. 14-014234  
 Date Completed 6/20/72  
 Document No. 60001078

BRIDGE DEPARTMENT	
<b>DESIGN SECTION 15</b>	
Section Supervisor	<u>R.C. Blahut</u>
DESIGN	By <u>L.D. Ricci</u> 12-63
	Checked <u>P.J. Jurach</u> 12-63
DETAILS	By <u>MIZUTANI</u> 11-63
	Checked <u>P.J. Jurach</u> 12-63
QUANTITIES	By <u>HAFSTA</u> 1-64
	Checked <u>MIZUTANI</u> 1-64

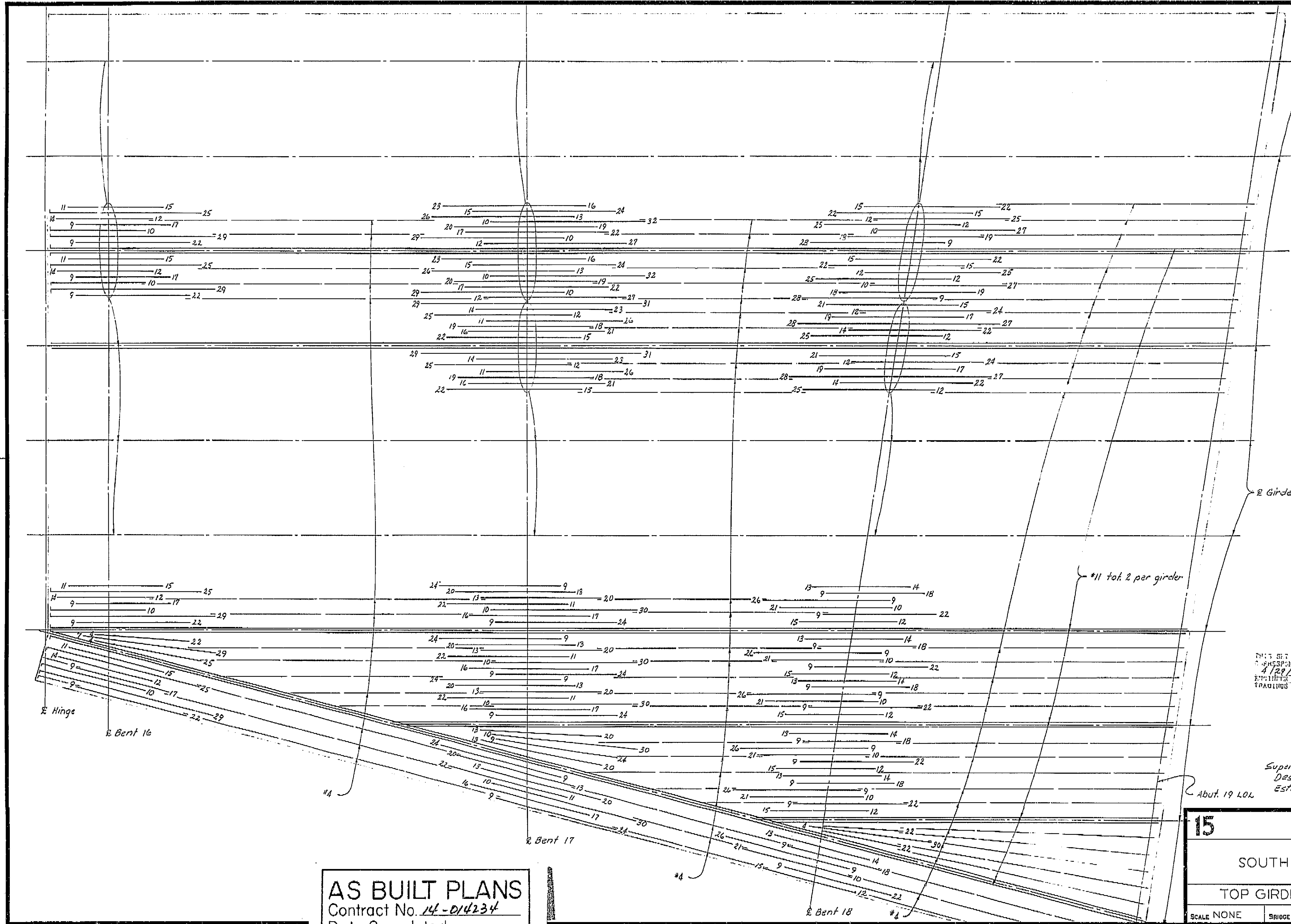
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
SOUTH FRESNO VIADUCT			
BOTTOM GIRDER REINF. 1 (LT. BR.)			
SCALE NONE	BRIDGE 42 226 R/L	FILE	DRAWING 42226-46
PRELIMINARY DRAWING NO. <u>P/234/27</u>		REVISION DATES	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 2-14-72 SIGNATURE [Signature] TITLE Sr. R.M.O.





DATE APPROVED: October 5, 1964



**AS BUILT PLANS**  
 Contract No. 14-D14234  
 Date Completed 6/20/1978  
 Document No. 62001078

Supervisor R.P. Blahs  
 Design B.J. 11/4/63 Check LDR 11/4/63  
 Estimate RM Check MKM

SHEET	OF
75	87

**15** STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**SOUTH FRESNO VIADUCT**

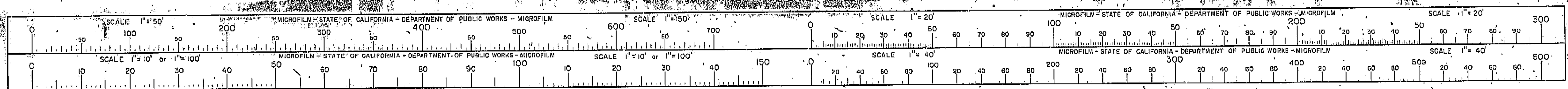
**TOP GIRDER REINF. 6 (RT. BR.)**

SCALE NONE BRIDGE 42-226 FILE DRAWING 42226-45

PRELIMINARY DRAWING No. P-1521 REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE James E. Cantrell TITLE Sr. RMC

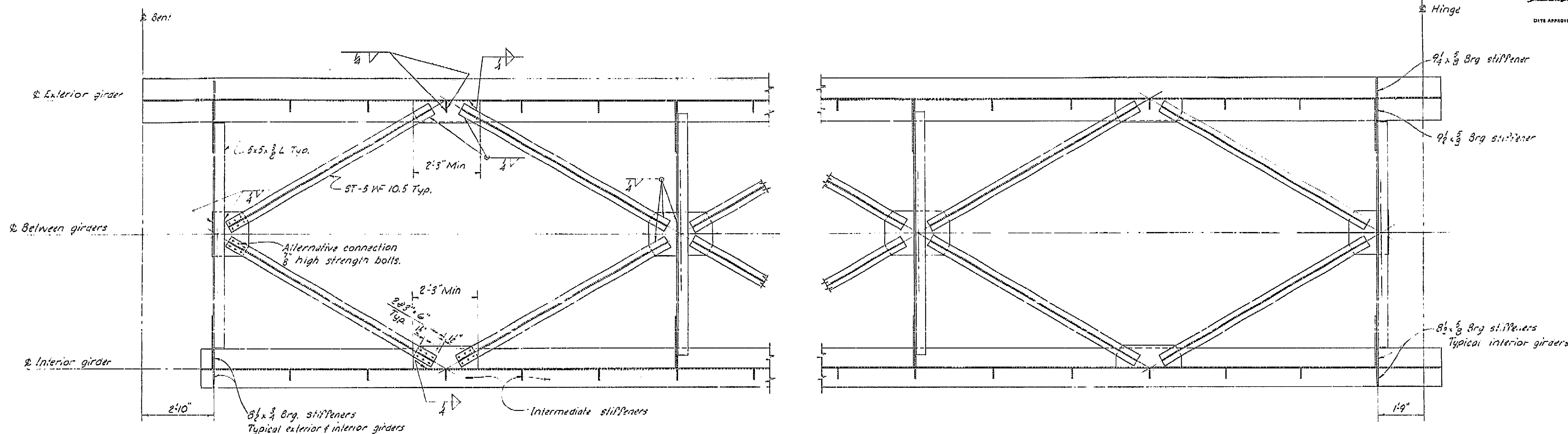




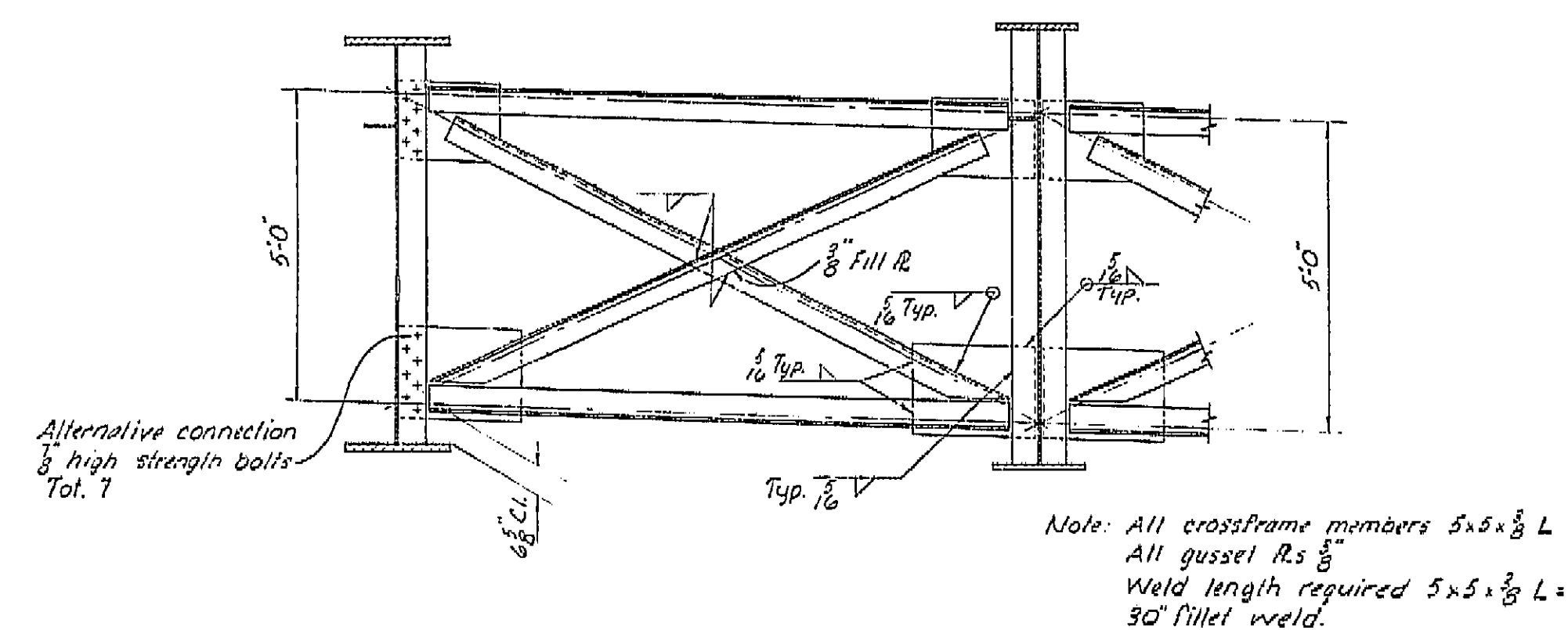
FED. ROAD DIST. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	42	145	145	161

DATE APPROVED: October 5, 1964



PLAN - BOTTOM LATERAL BRACING

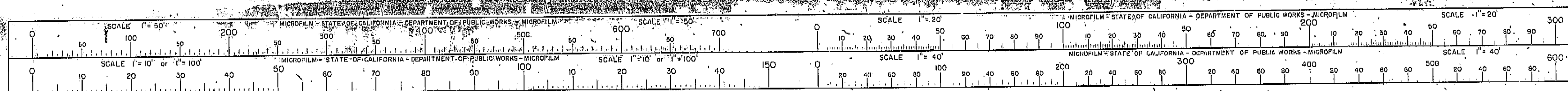


INTERMEDIATE CROSSFRAMES

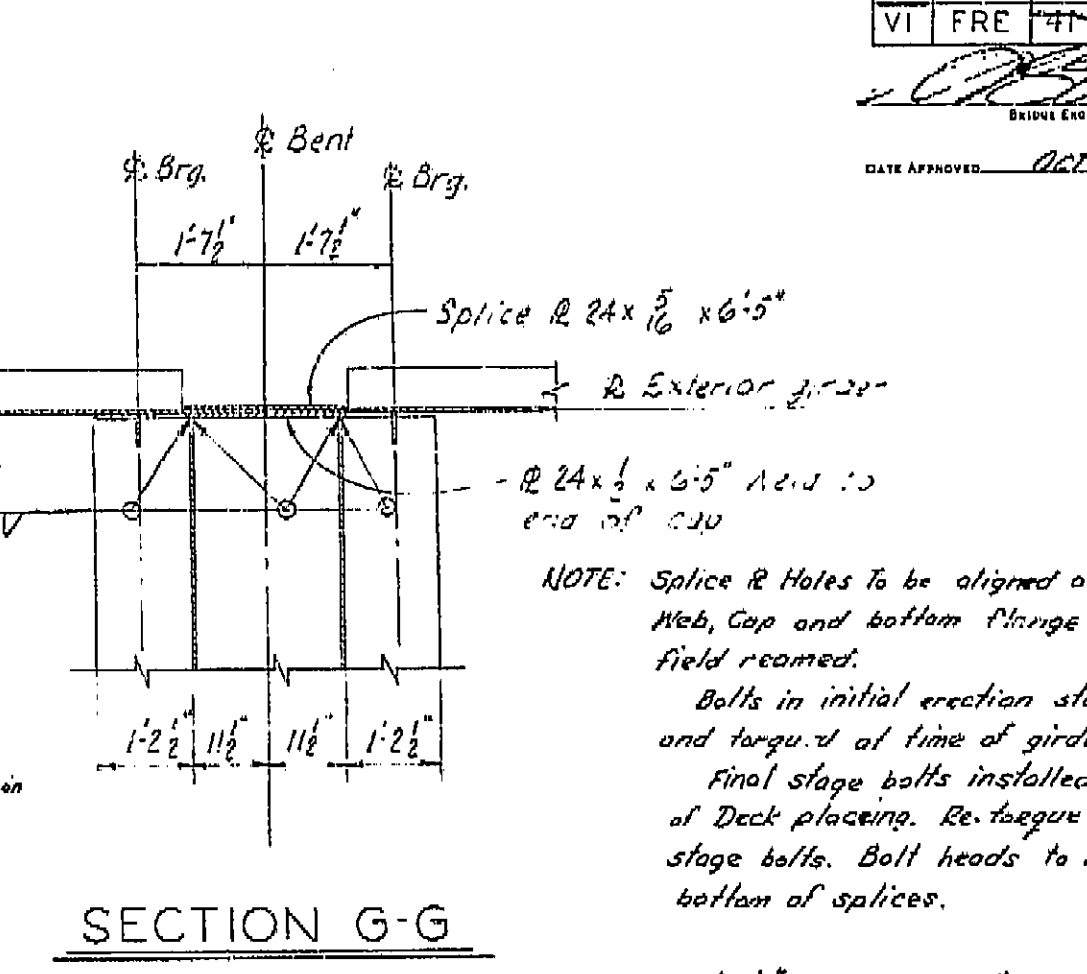
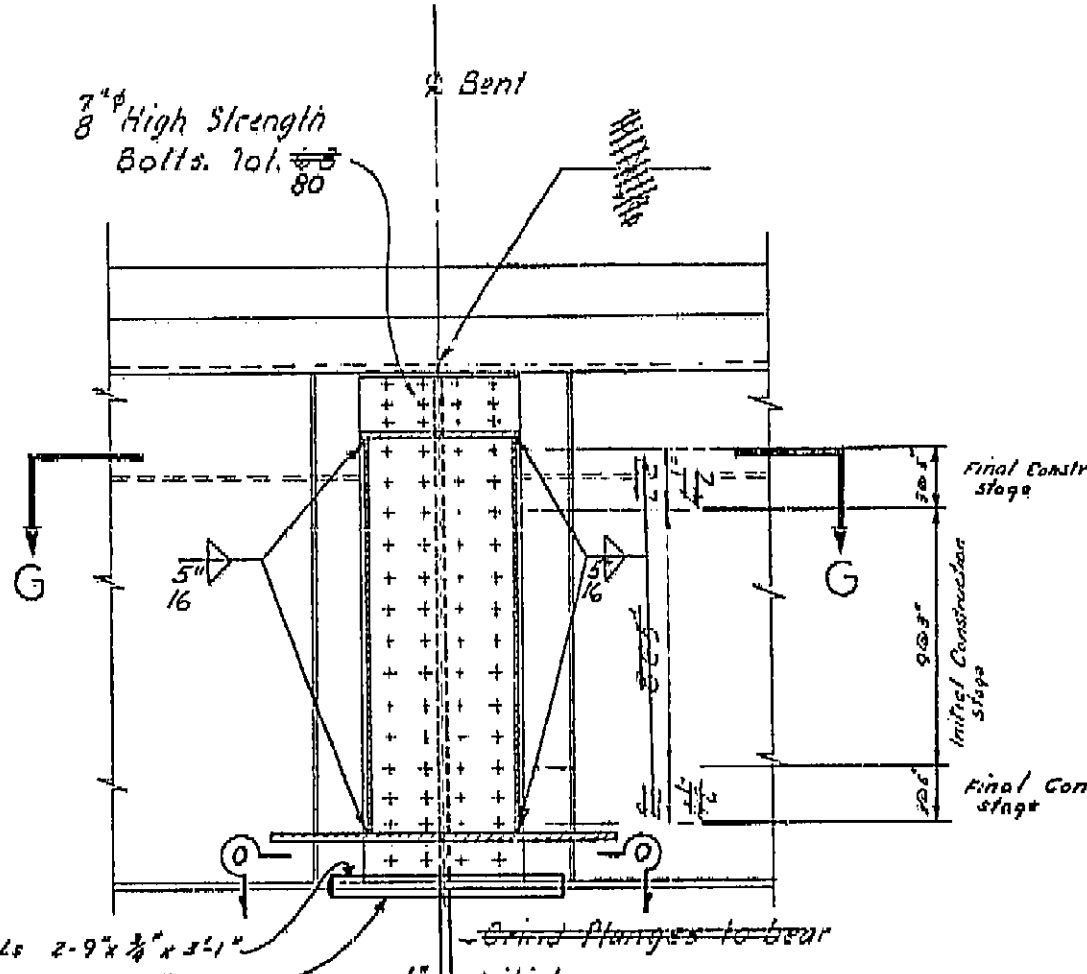
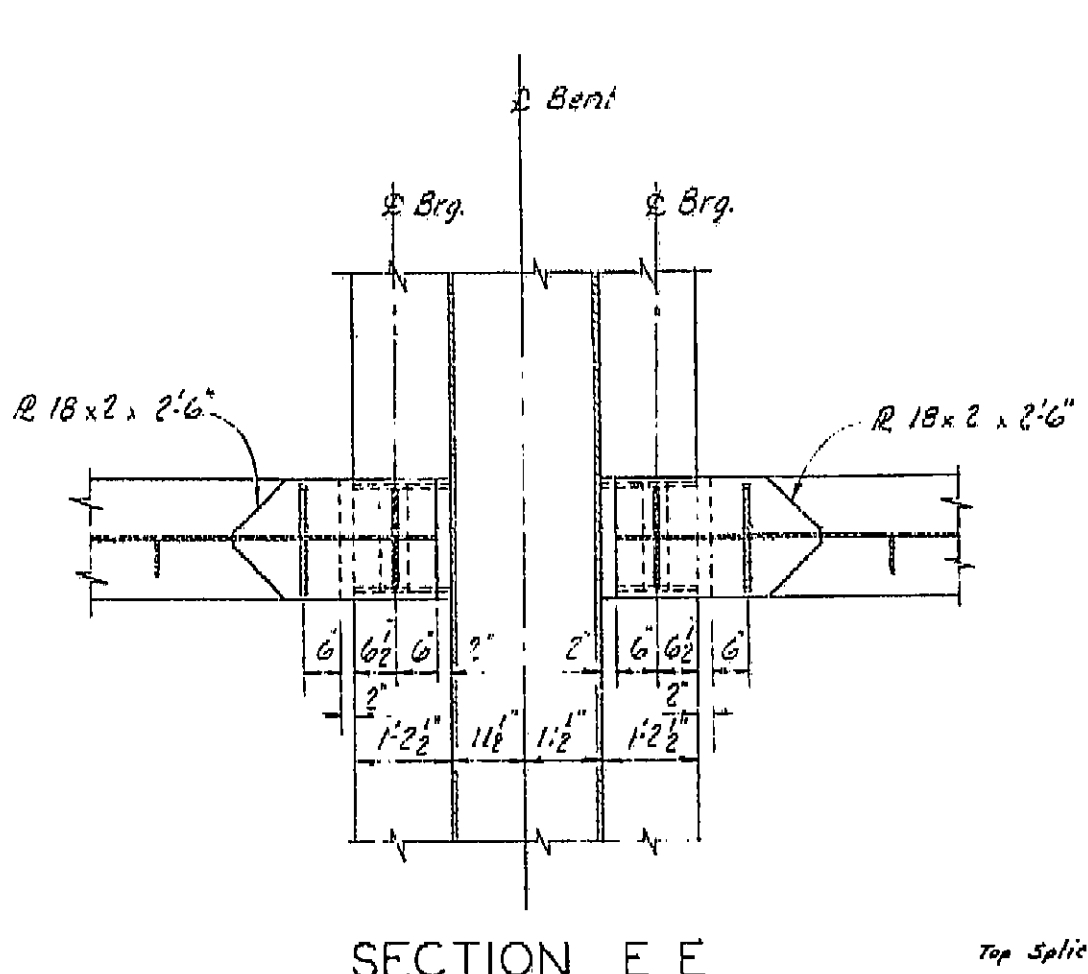
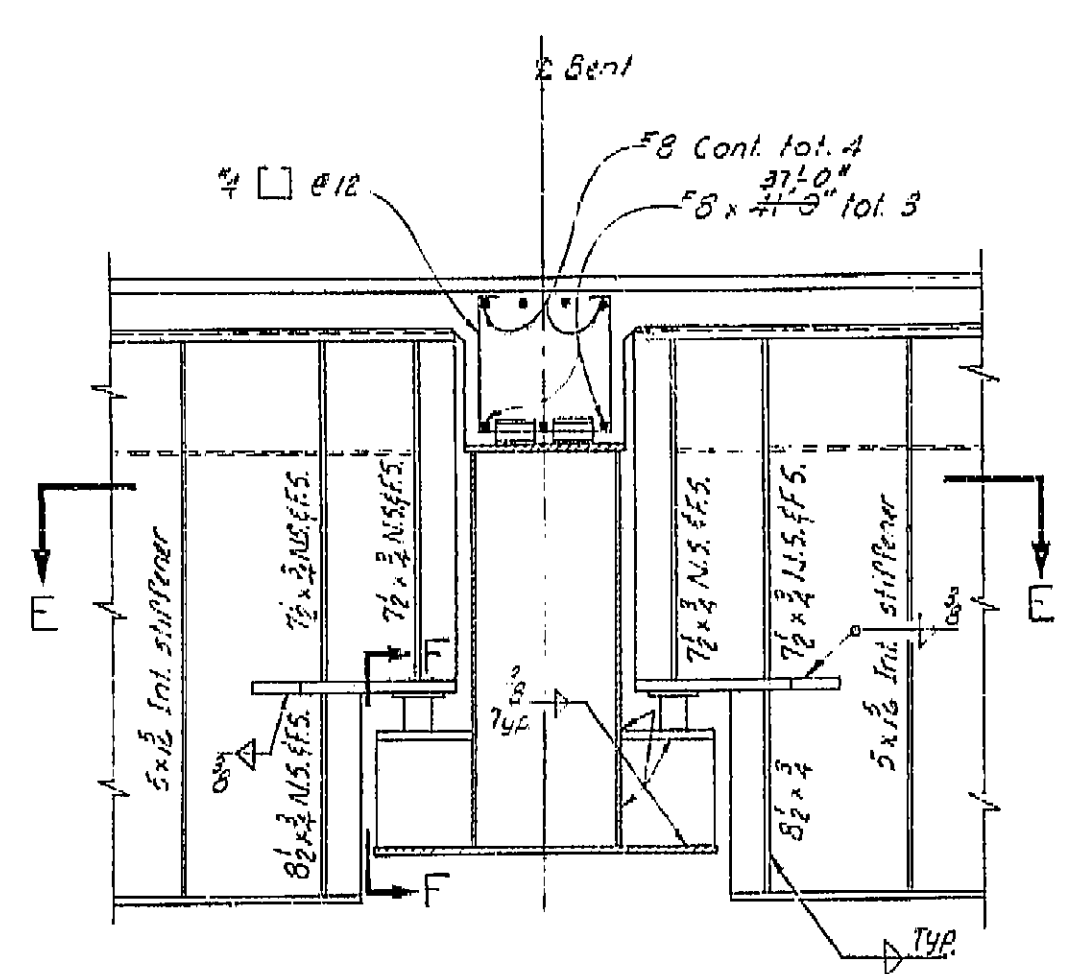
**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed             
Document No. 60001078

BRIDGE DEPARTMENT <b>DESIGN SECTION 15</b>		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Section Supervisor <u>RE Blake</u>		SOUTH FRESNO VIADUCT	
DESIGN	By <u>S. J. P. 10-63</u> Checked <u>C. H. 10-63</u>	STEEL GIRDER DETAILS 2	
DETAILS	By <u>W. P. 11-63</u> Checked <u>C. H. 11-63</u>	BRIDGE 42-226 R/L FILE	
QUANTITIES	By <u>J. P. 11-63</u> Checked <u>J. P. 11-63</u>	DRAWING 42226-65	
Preliminary Drawing No. <u>P. 14-10-63</u>		Revision Dates	

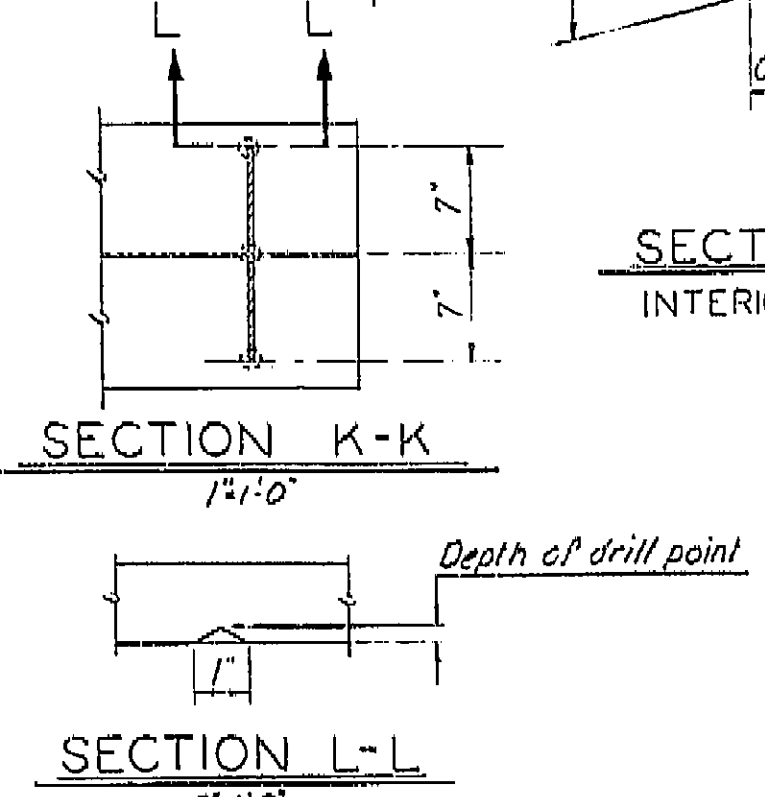
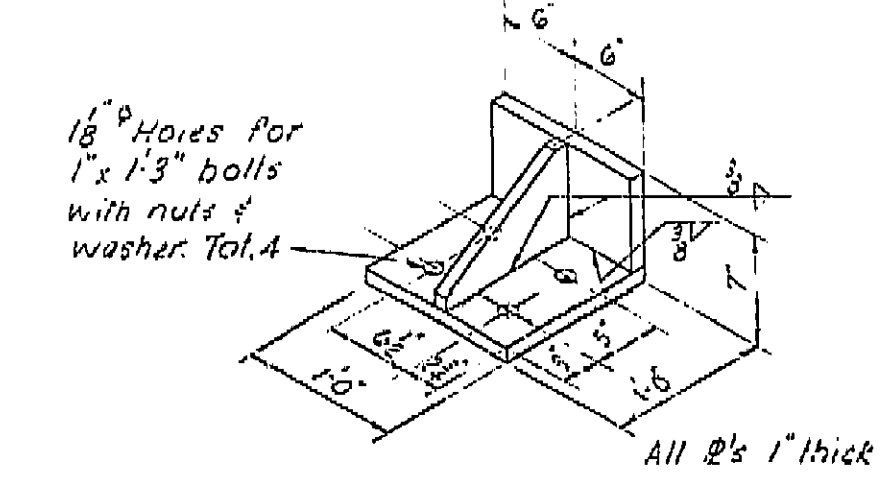
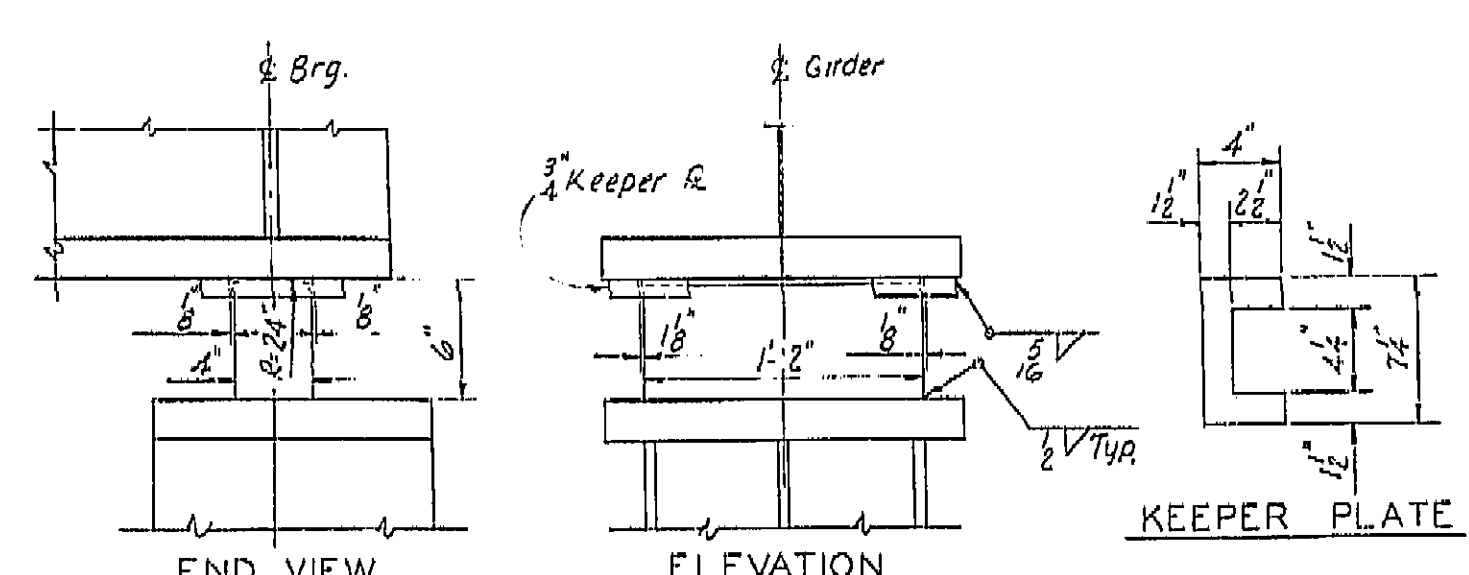
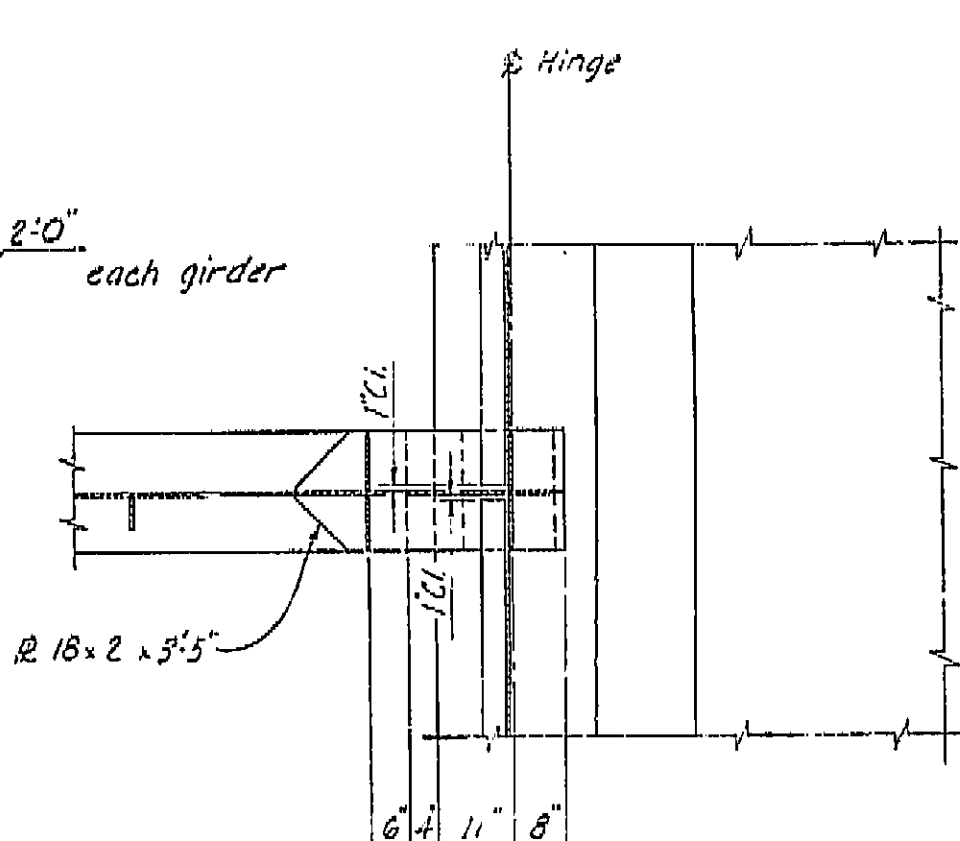
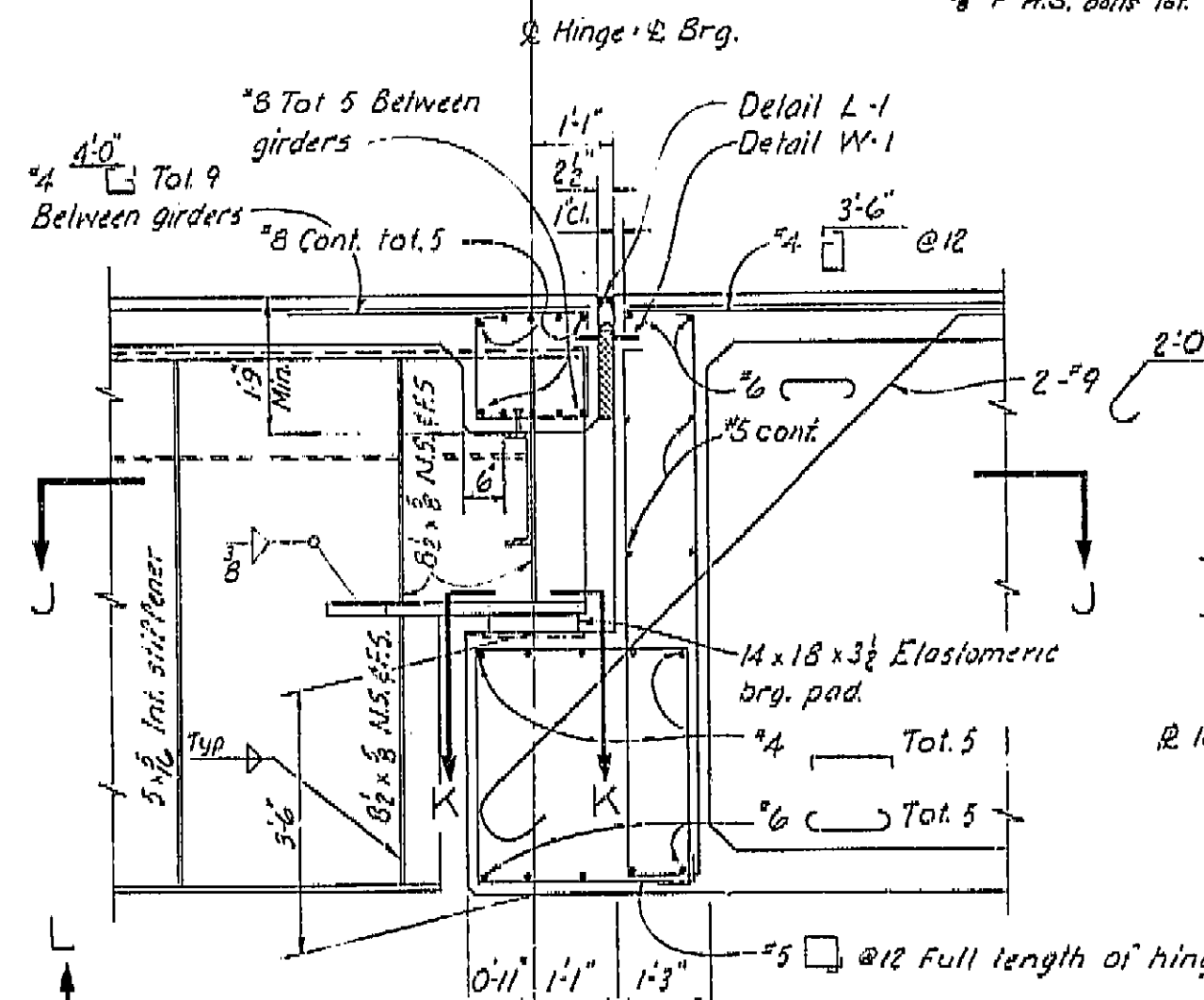
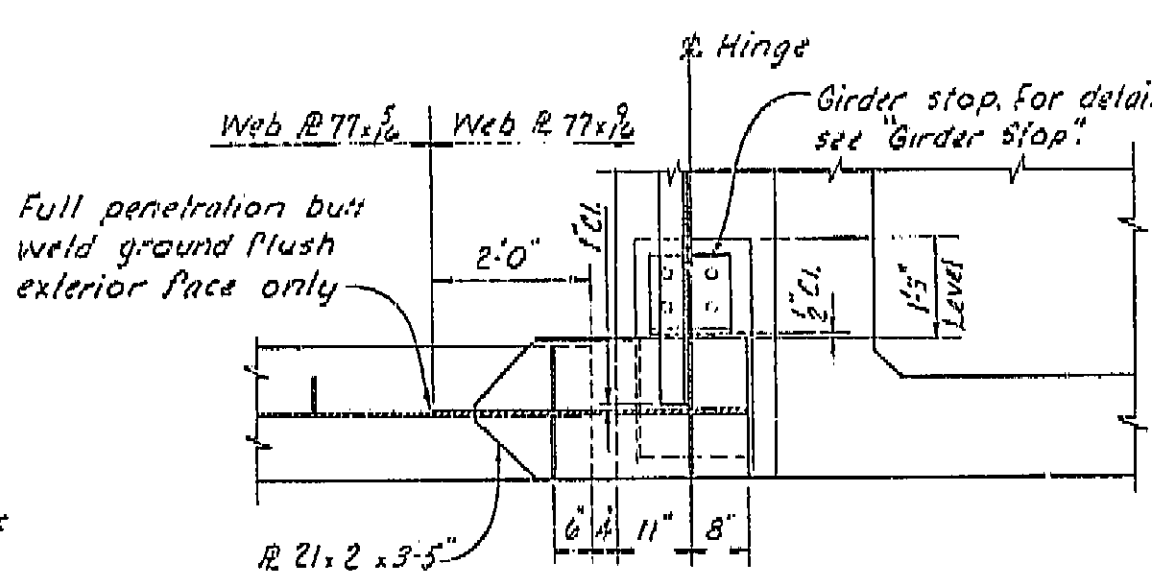
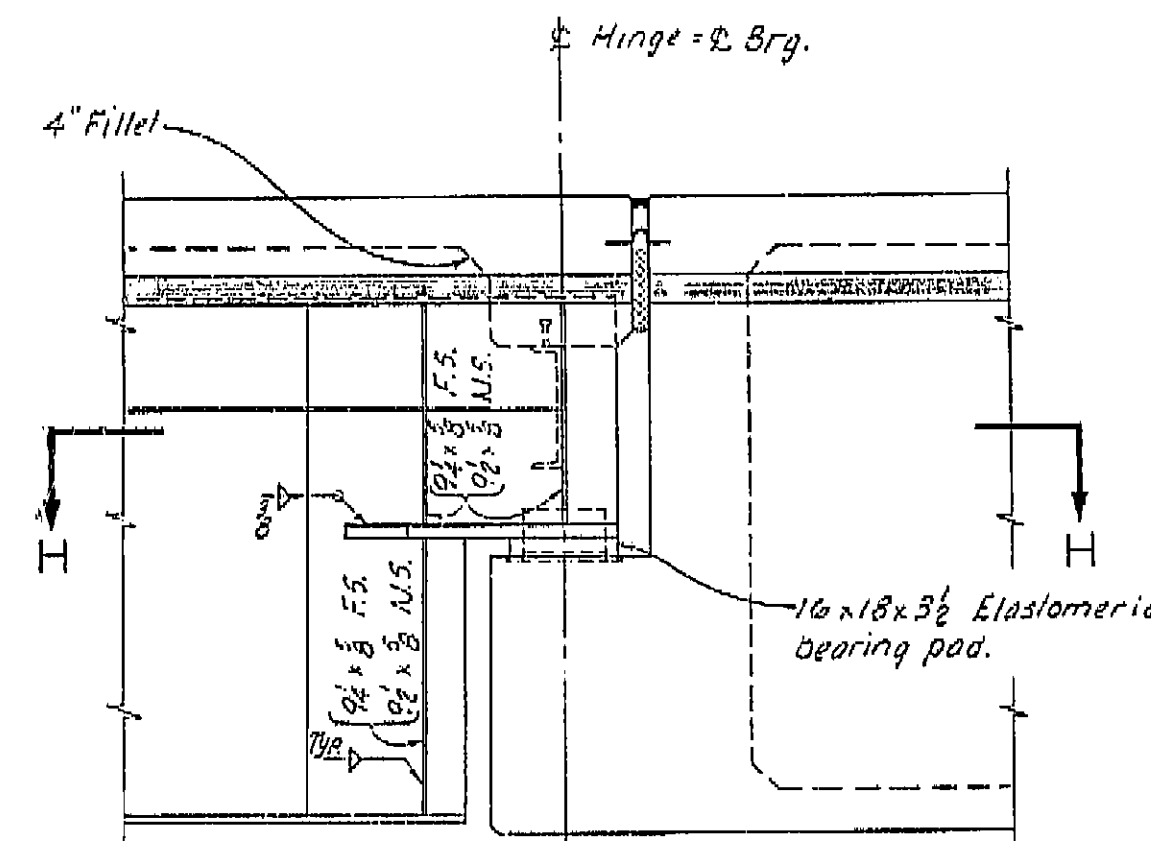
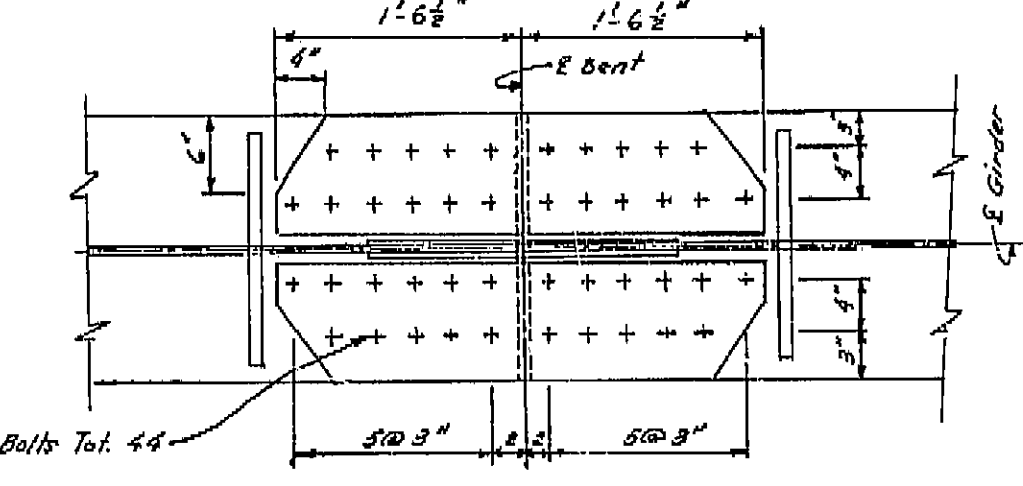
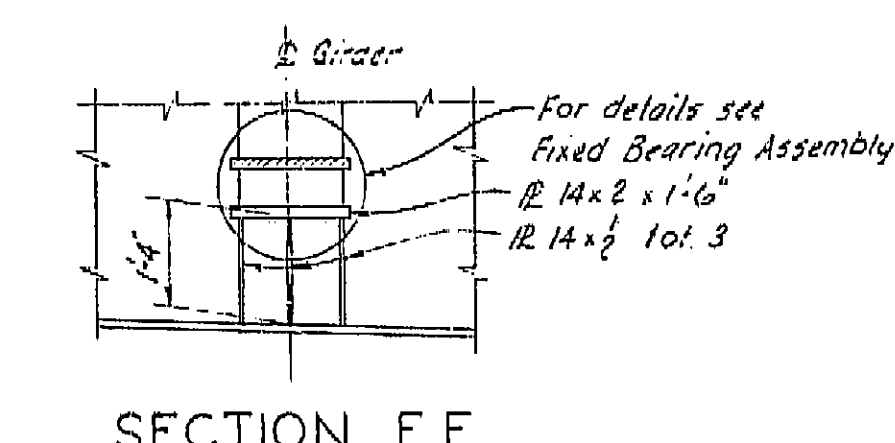
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE L. J. Hunter TITLE Sr. RMC







NOTE: Splice & Holes to be aligned and drilled full size. Web, Cap and bottom flange holes to be field reamed. Bolts in initial erection stage to be installed and torqued at time of girder erection. Final stage bolts installed after completion of Deck placing. Re-torque initial erection stage bolts. Bolt heads to be on outside and bottom of splices.



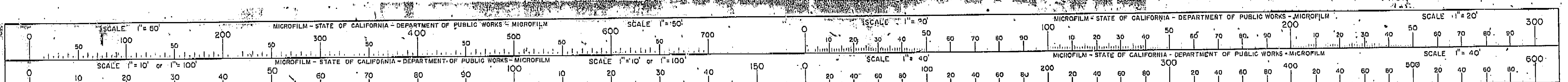
FIXED BEARING ASSEMBLY

BRIDGE DEPARTMENT DESIGN SECTION 15	
DESIGN	By: J. R. Hunter 3-64
DETAILS	By: J. R. Hunter 3-64
QUANTITIES	By: J. R. Hunter 3-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT	
STEEL GIRDER DETAILS I	
EXCEPT AS NOTED	BRIDGE 42-226 R/L FILE
SCALE 1/4"=1'-0"	DRAWING 42226-64

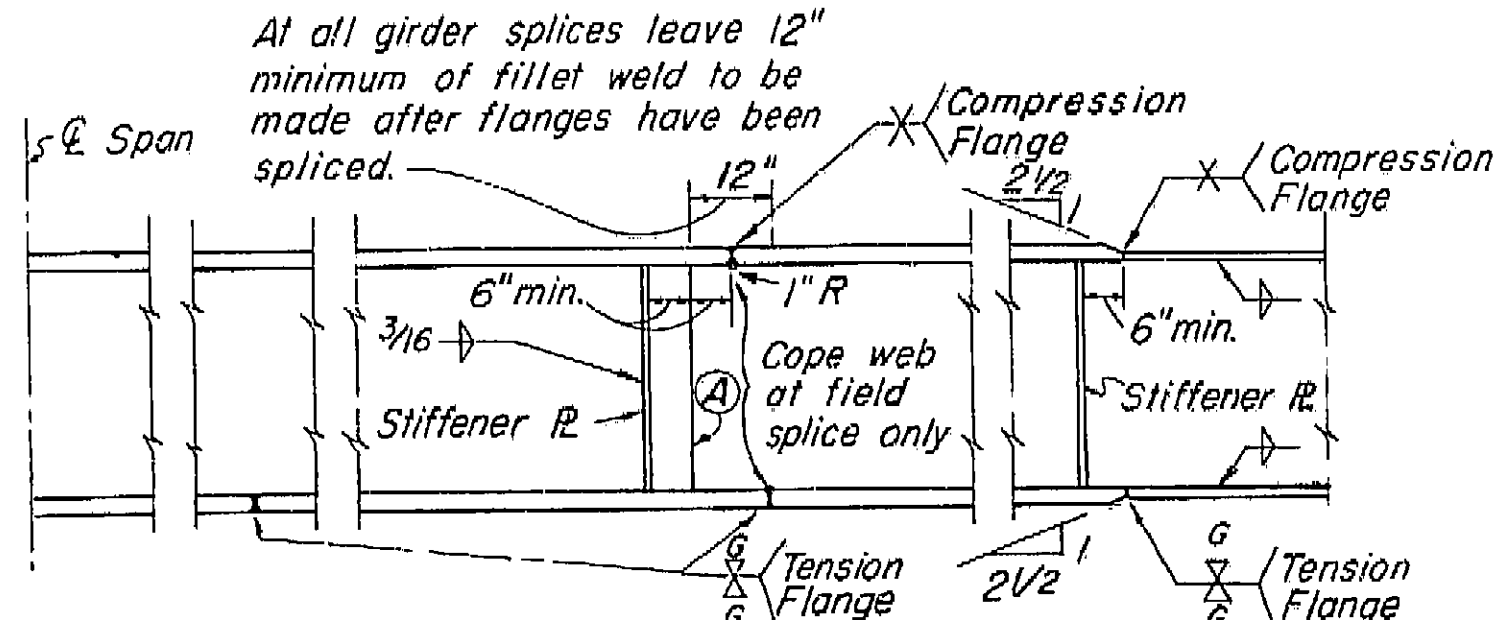
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE [Title]





Deleted stop out  
in Barrier Earing  
6-24-63 J.F.J.  
Deleted block  
above Co. El. Sec.  
upper right corner  
Deleted Signature  
block, lower right  
corner, Deleted  
Rubber from all  
Watershop notes,  
Rev Title Block,  
J.F.J. 8-2-63  
Revision: 8-2-63  
Moved welded joint  
on tension flange



④ - Web splices shall be full penetration butt welds. Where weld areas on exterior girders are visible from a traveled way the areas are to be ground flush.

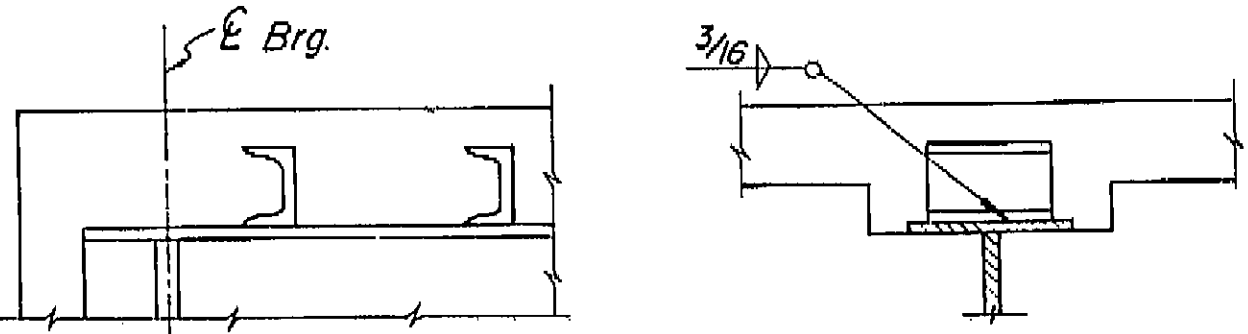
**GIRDER SPLICE AND WELDING DETAILS**

**WELDING NOTES**

The relation between fillet weld size and the maximum thickness of material on which various sizes of fillet weld may be used shall be in accordance with Article 222 (b) of the A.W.S. Specifications dated 1956, unless otherwise noted.

The methods of joint preparation shown on the plans are based on the use of manual shielded arc welding. In the event that automatic or semi-automatic submerged arc processes are used, the contractor may submit alternative methods of joint preparation for approval by the engineer. "U" butt welds may be substituted for vee type shown on the plans. "J" butt welds may be substituted for bevel types shown on the plans.

Shop plans shall indicate welding sequence and type of steel to be used.

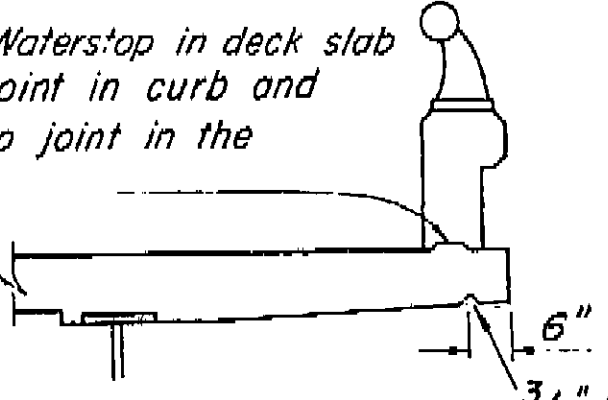


Notes: 1. Orient channel so that flanges point toward near bearing.  
2. Alternative types of shear connectors may be submitted by the contractor for approval by the Engineer.

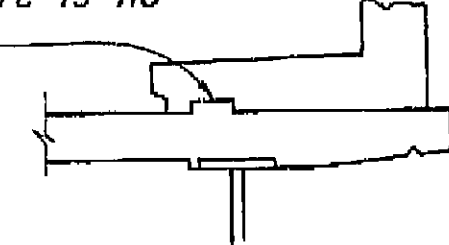
**SHEAR CONNECTOR DETAILS**

Scale: 1 1/2" = 1'-0"

1 5/8" x 3" x 1'-0" Raised Waterstop in deck slab on low side only, at joint in curb and rail where there is no joint in the deck slab.

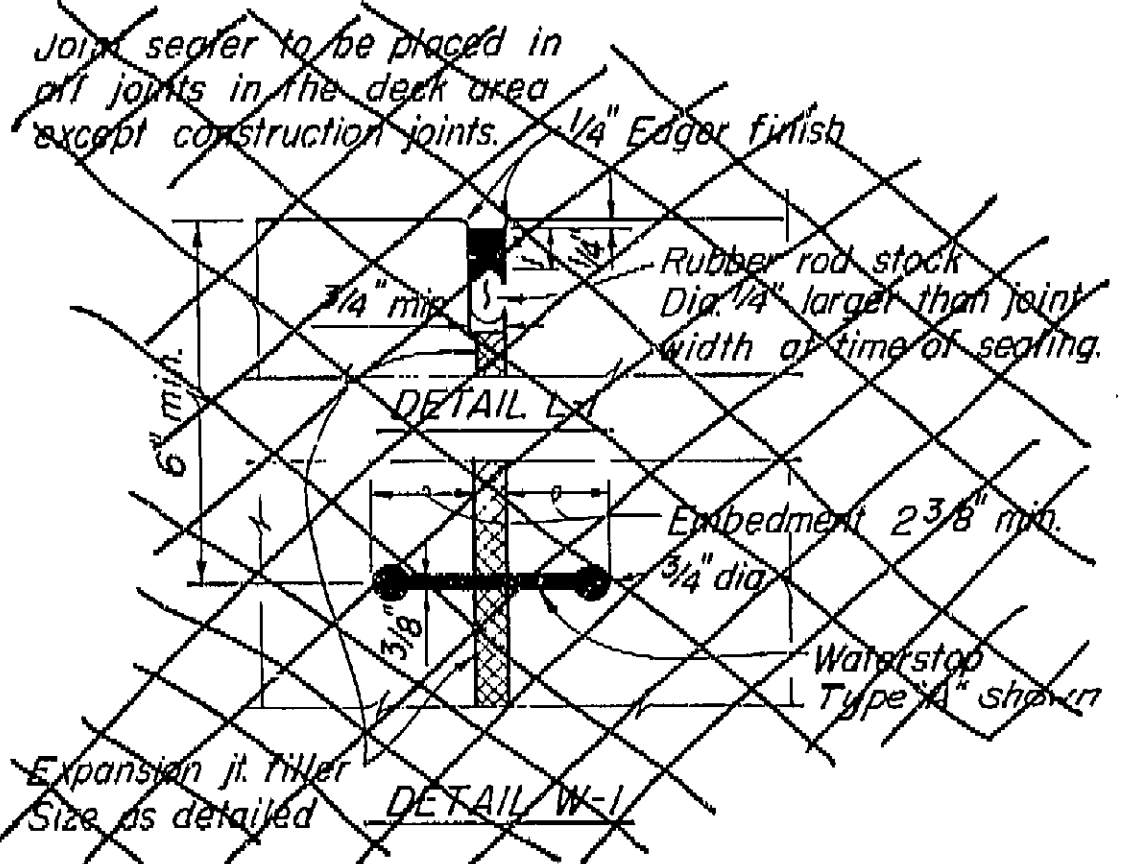


1 5/8" x 6" x 1'-0" Raised Waterstop in deck slab on low side only, at joints in curb and rail where there is no joint in the deck slab.



**CURB AND SIDEWALK EXPANSION JOINT**

DETAIL C-1

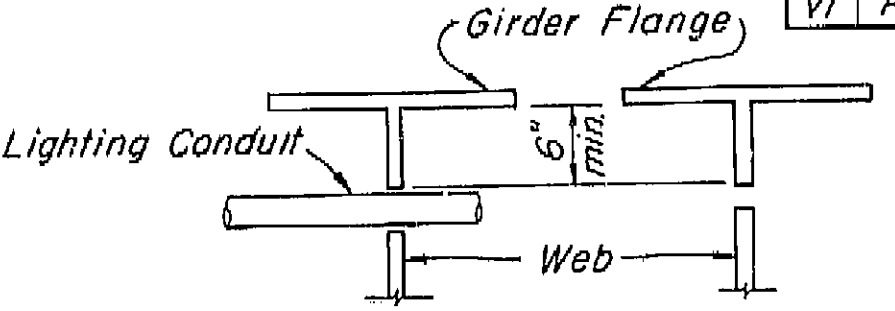


Tempered hardboard smooth side down over 1/2" untreated insulating board.

DETAIL M-1

**FOR SEALED DECK JOINT SEE "BOX GIRDER DETAILS NO. 1"**

Scale: 3" = 1'-0"

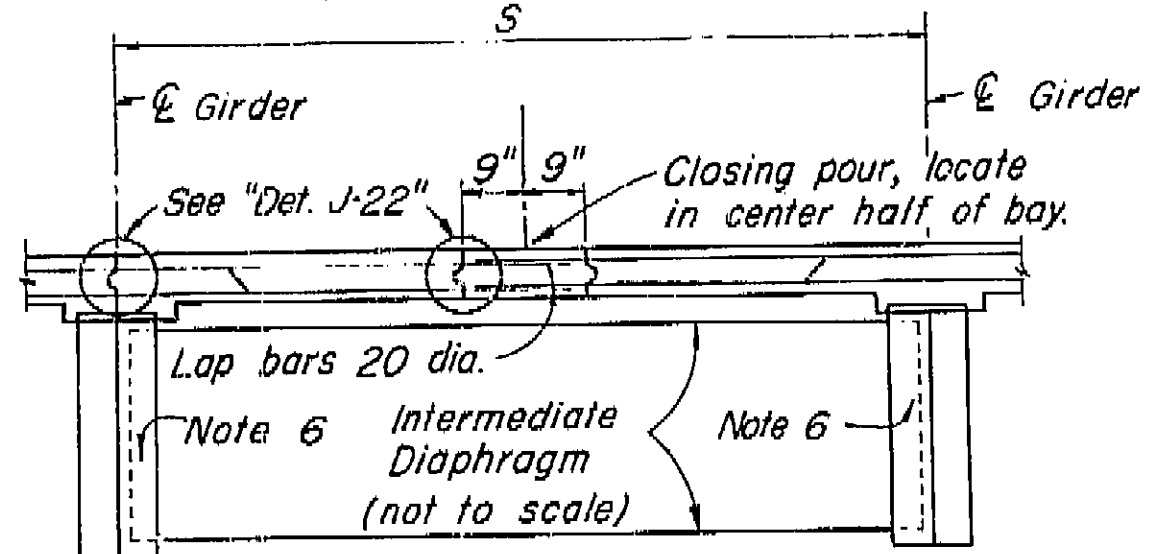


2" max. dia hole to be drilled where lighting conduit passes through girder web. For location and size of hole see Lighting Plan.

1" max. dia. hole at 4'± min. spacing to be used as falsework support (when specified by the contractor). Contractor to determine location, size and spacing.

Holes to be 6" min. clear from horizontal or vertical weld and rivet or bolt lines.

**HOLES FOR CONDUIT AND FALSEWORK**



**LONGITUDINAL CONSTRUCTION JOINTS**

**DECK PLACING NOTES**

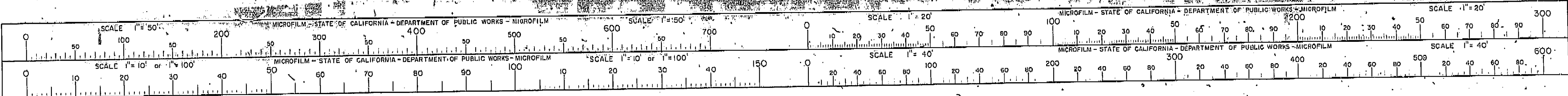
1. Contractor shall submit deck placing schedule, for approval by the Engineer.
2. In general, transverse construction joints will not be permitted.
3. When a longitudinal joint is used for spans greater than 100', the contractor shall provide for a 1'-6" closing pour located within the center half of the bay between girders. For shorter spans a single joint may be located over the E of girder nearest the edge of a traffic lane.
4. Where closing pour is required, the girders supporting the portion of deck being placed shall be free to deflect under superimposed load and there shall be no interconnection of forms or bracing with girder on other side of closing pour.
5. The closing pour shall not be placed until the adjacent slabs have been in place for three days.
6. Final connection of the intermediate diaphragms below the closing pour panel will not be permitted until the deck slabs have been placed on both sides of the closing pour.
7. Reinforcing shall be continuous through all construction joints.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER, NACHT, TRACINGS CORRECTED BY: J.S. DATE: 7/1/66

**AS BUILT PLANS**  
Contract No. 14-D14234  
Date Completed  
Document No. 60001078

8/63		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
SOUTH FRESNO VIADUCT			
STANDARD DETAILS		(STEEL GIRDERS)	
BRIDGE NO. 42-226 1/2	DRAWING NO. 42226-82	SHEET 81	OF 87
REVISION DATA		PRELIMINARY STAGE ONLY	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
DATE 2-14-72 SIGNATURE [Signature] TITLE S22 RMC

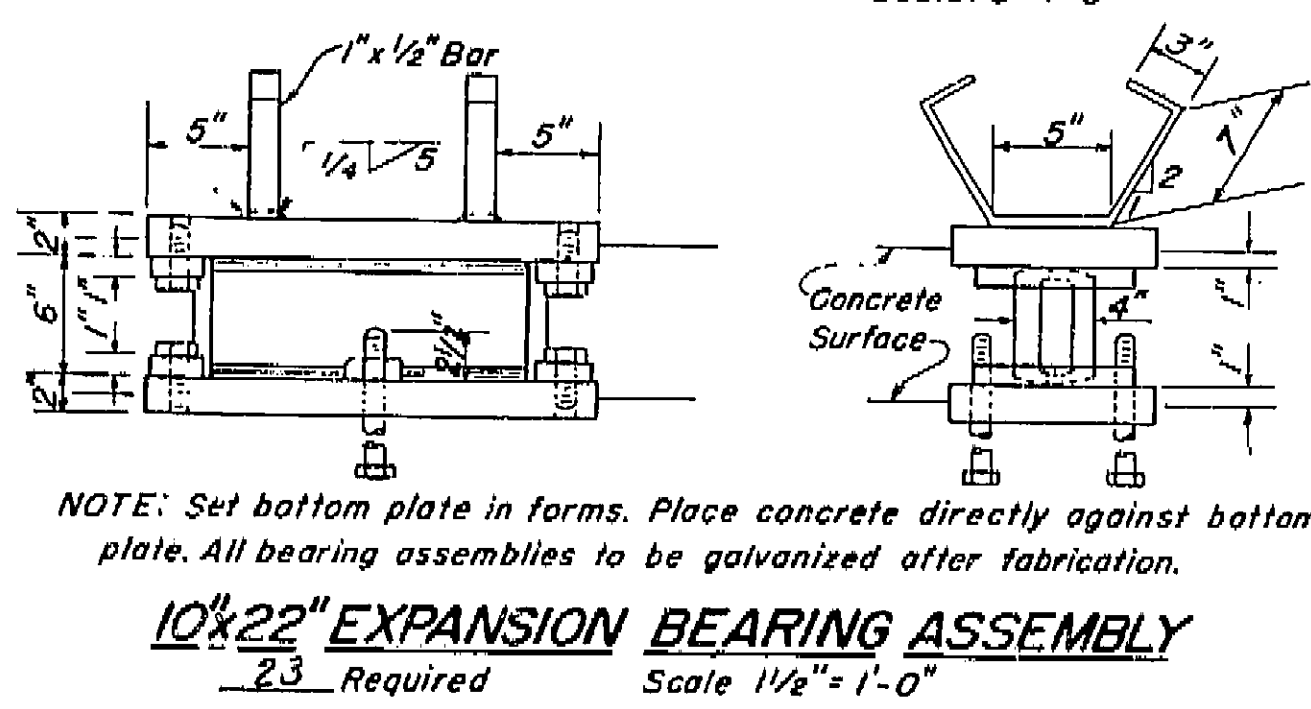
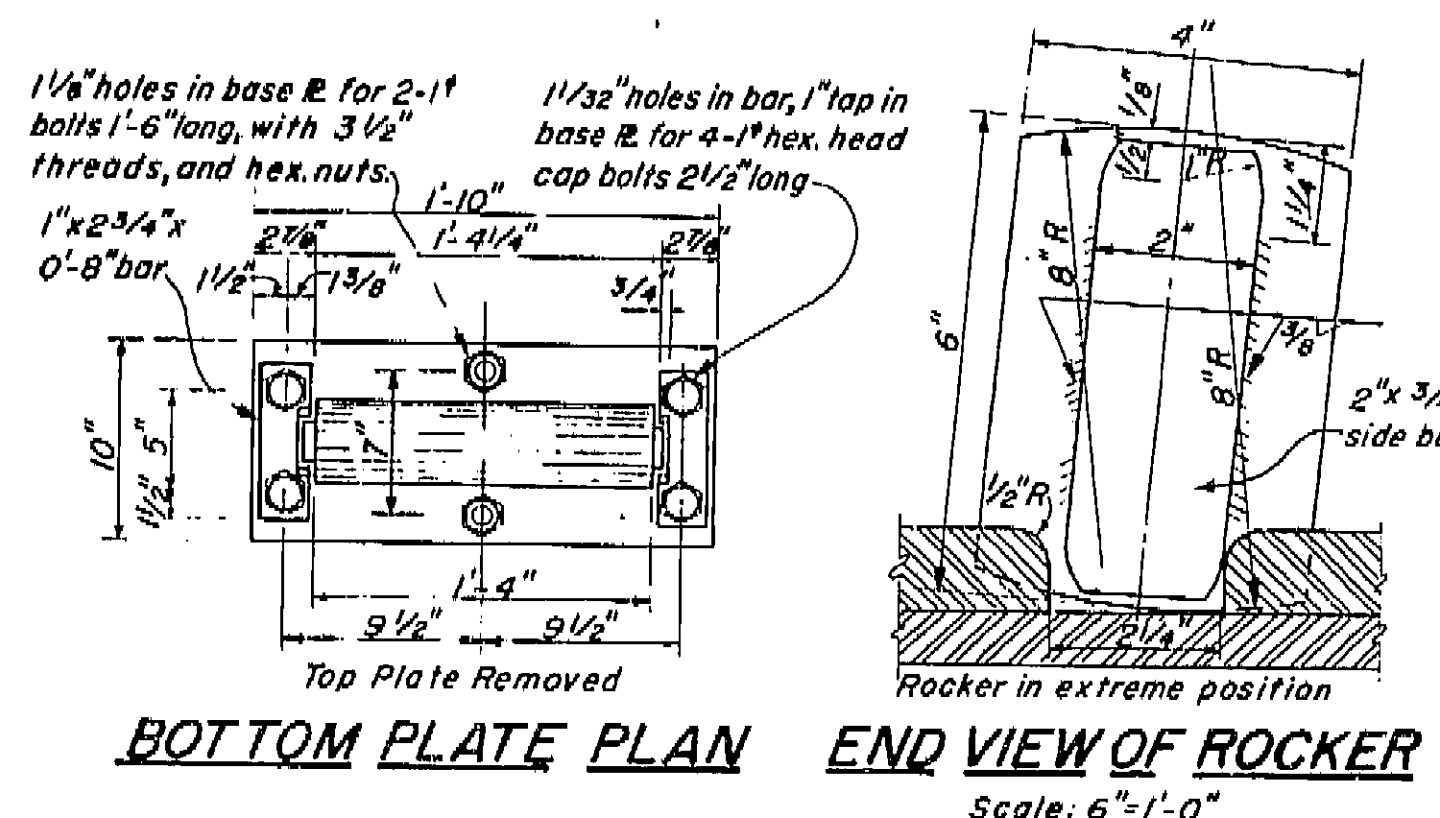
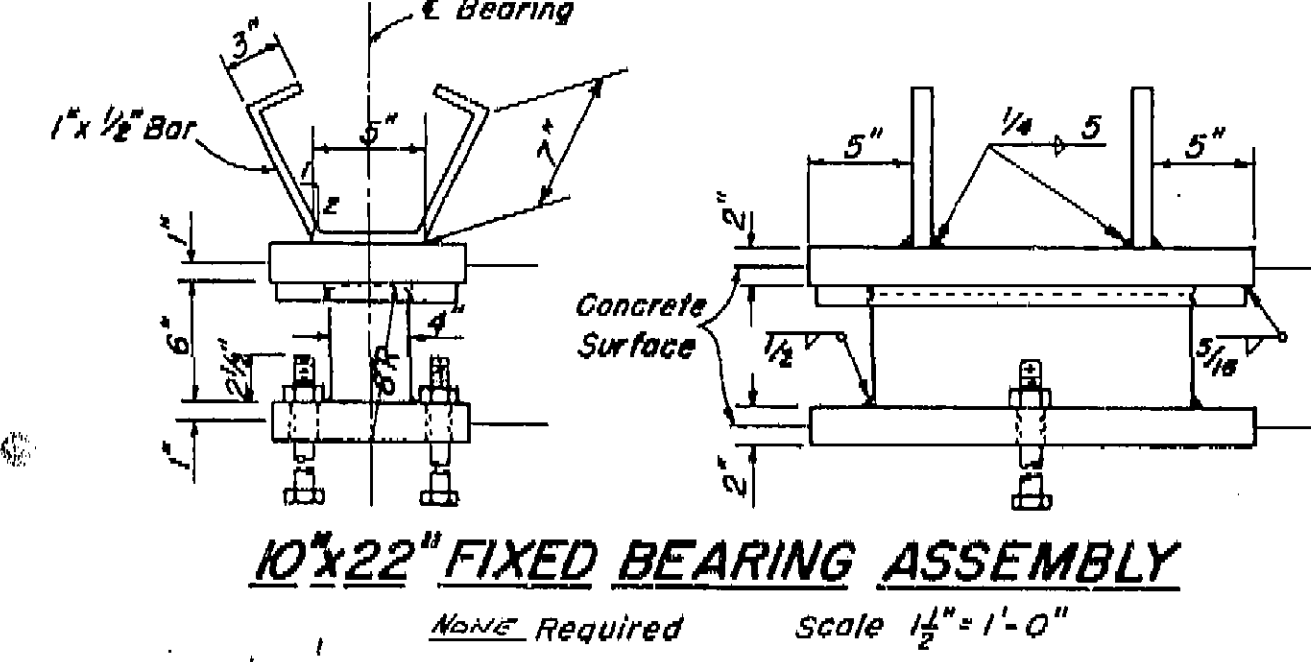
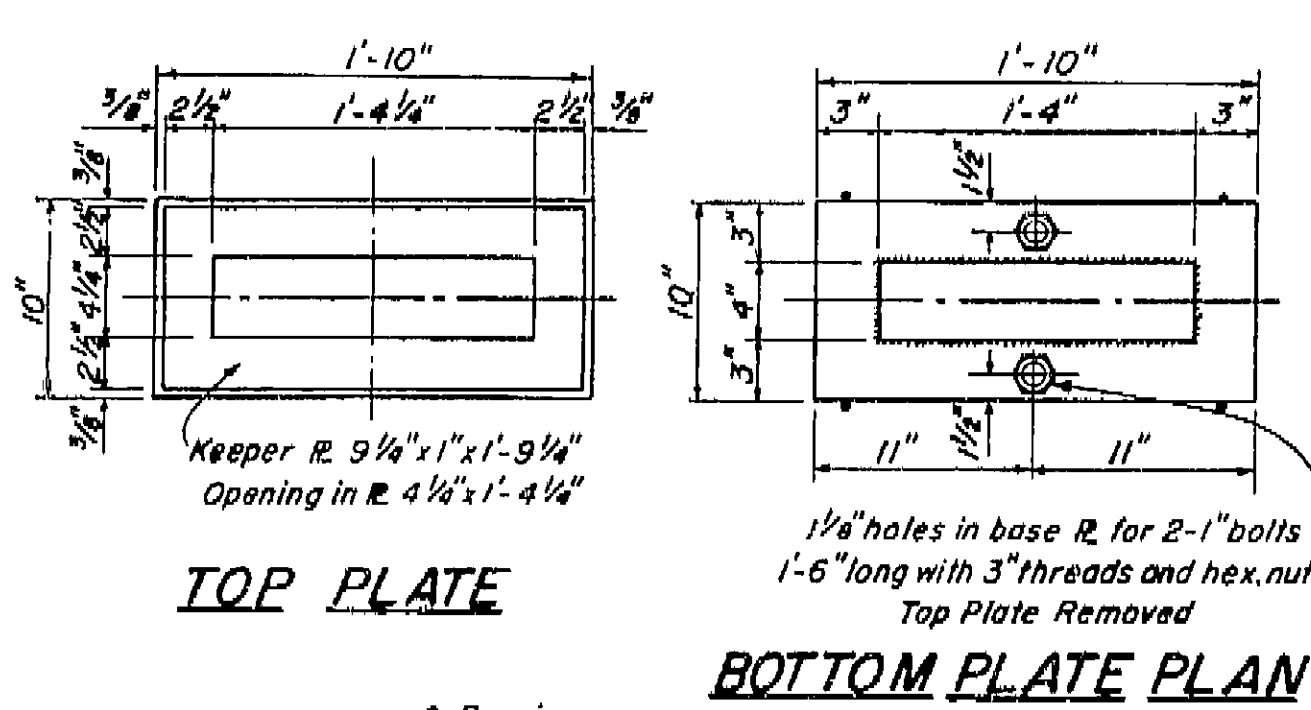
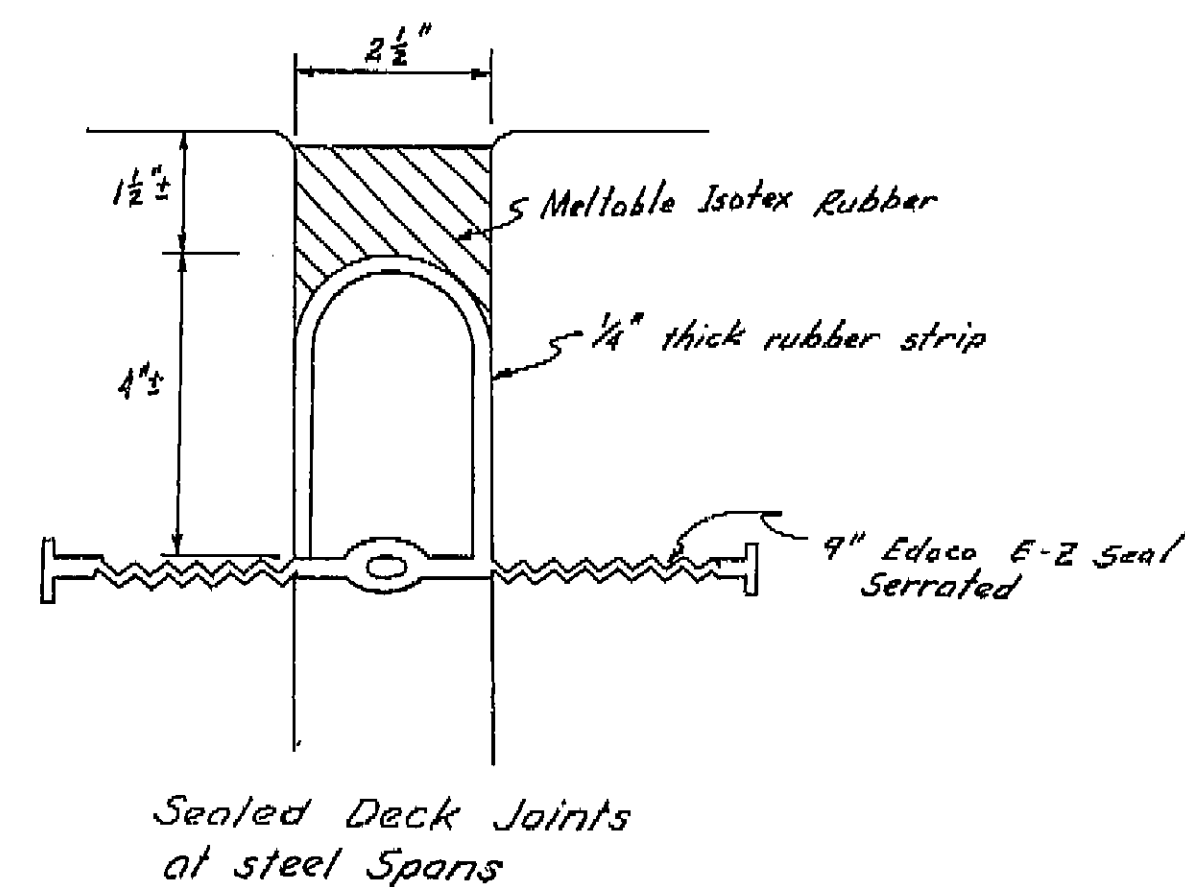




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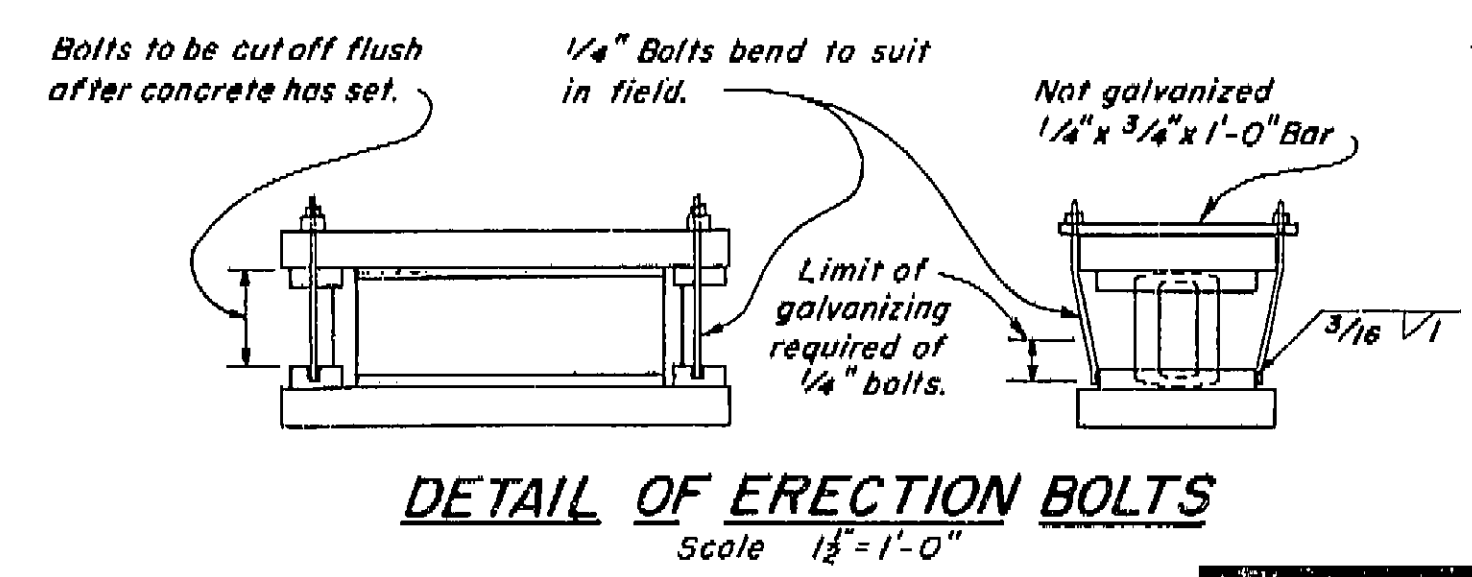
DATE APPROVED: October 3, 1964



NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10 - SOUTH FRESNO VIADUCT  
5 - BROADWAY ON-RAMP O.C.

**AS BUILT PLANS**  
Contract No. 14-014234  
Date Completed  
Document No. 60001078

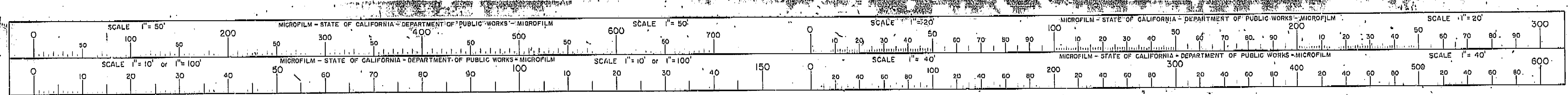


THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/28/66, AS SUBMITTED BY RESIDENT ENGINEER J. Noguera. REVISIONS CORRECTED BY J. Noguera 7/6/66

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		File XS-16-40
SOUTH FRESNO VIADUCT		
STANDARD DETAILS NO. 2 (BOX GIRDER)		
BRIDGE NO. 42-226 R	DRAWING NO. 42226-81	SHEET 45 OF 87
REVISION DATES (PRELIMINARY STAGE ONLY)		

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [Signature] TITLE S.R. R.M.C.

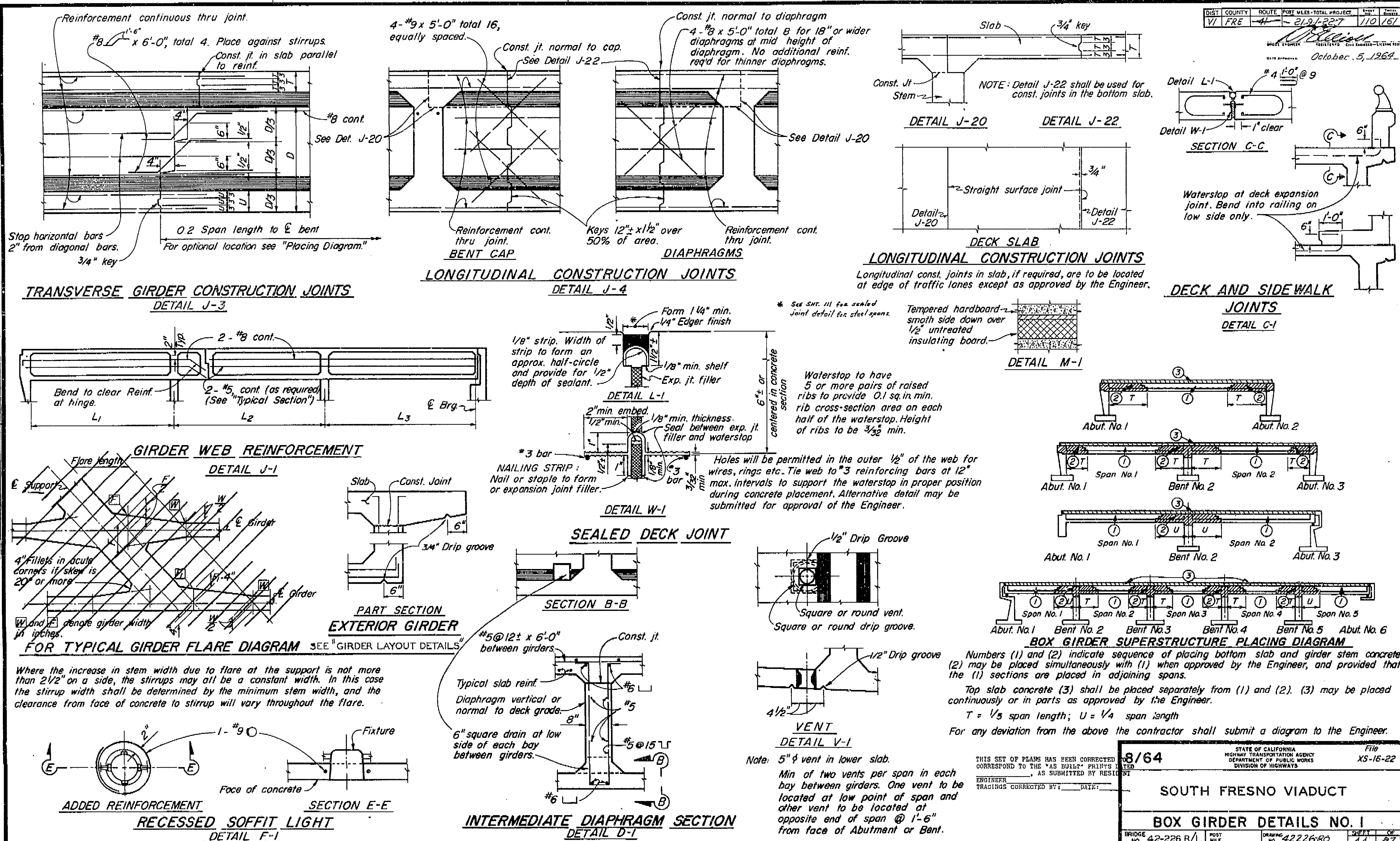




QUINCO SEALER DECK JOURNAL  
APPROX LOCUS (LOUIS 11)  
AND DETAIL M-1  
IN AUG 64 EJS

AS BUILD PLANS  
Contract No 14-D14234  
Date Completed \_\_\_\_\_  
Document No 60001078

STANDARD DRAWING  
*Dr. H. G. Smith* -26.63  
 124 sheets 6729  
 Approved & Recommended by *Dr. F. J. Rose*

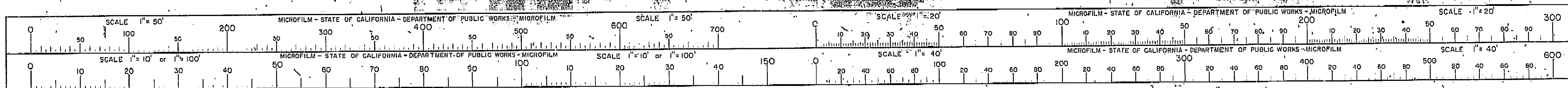


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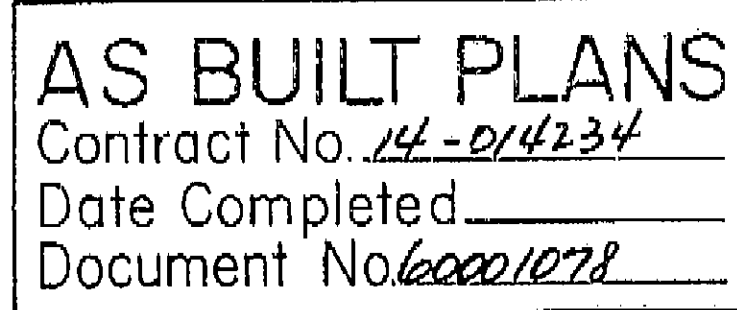
DISREGARD PRINTS BEARING EARLIER REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS. --

DATE 2-14-72 SIGNATURE *[Signature]* TITLE SR RMC







BRIDGE DEPARTMENT		15
DESIGN SECTION		
Senior Supervisor <i>R.C. Banks</i>		
DESIGN	By <i>R.C. Banks</i>	
	Checked <i>R.C. Banks</i>	
DETAILS	By <i>R.C. Banks</i>	
	Checked <i>R.C. Banks</i>	
QUANTITIES	By <i>R.C. Banks</i>	1-64
	Checked <i>D.P. Messer</i>	1-64

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS									
SOUTH FRESNO VIADUCT									
TYPE D-2 DRAIN & DETAILS									
SCALE <u>As Noted</u>		BRIDGE		FILE		DRAWING		42226-57	
PRELIMINARY DRAWING No. <u>1</u>				REVISION DATES		REVISION NO. DATE BY			
P. <u>1</u>				1. <u>1</u>		1. <u>1</u>			

